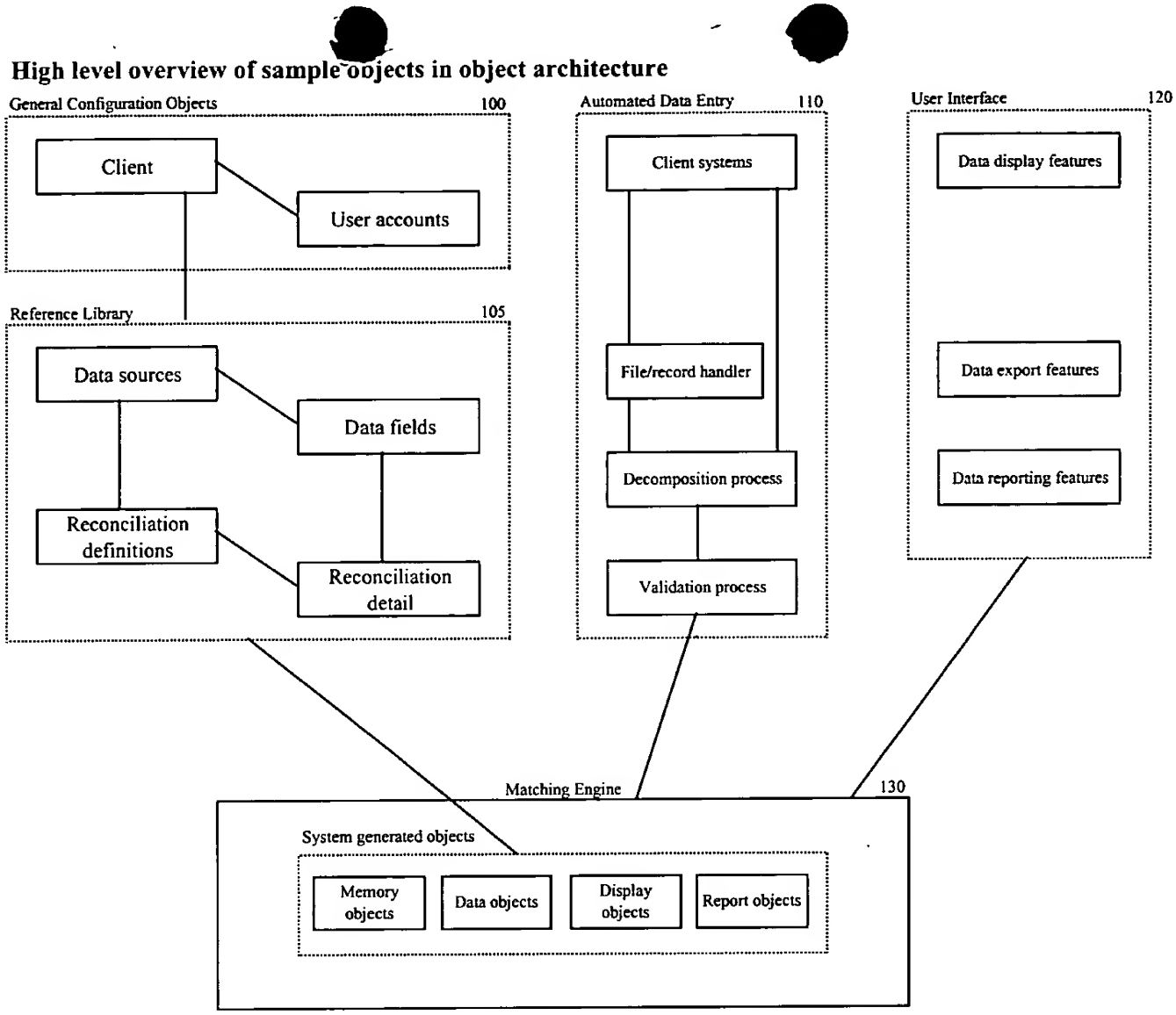
High level overview of sample objects in object architecture
General Configuration Objects
100
Client
User accounts
Reference Library
105
Data sources
Data fields
Reconciliation definitions
Reconciliation detail
Automated Data Entry
110
Client systems
File/record handler
Decomposition process
Validation process
User Interface
120
Data display features
Data export features
Data reporting features
Matching Engine
130
System generated objects
Memory objects
Data objects
Display objects
Report objects

FIG. 1

TECHNOLOGY BUILD

KEY TASKS FOR ARCHITECTING NEW BUSINESS SOLUTION

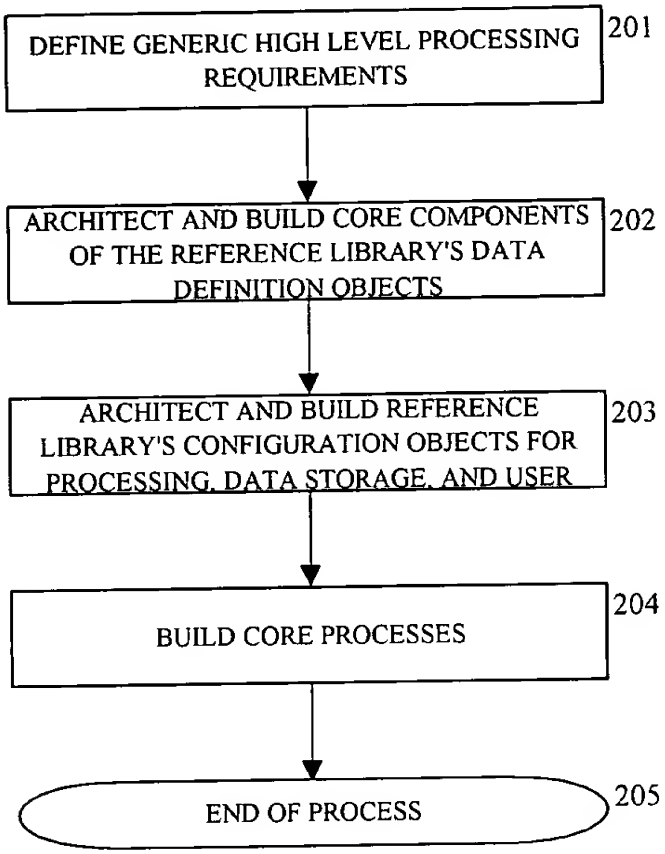

FIG. 2

USER APPLICATION PROCESSING
KEY TASKS FOR CONFIGURING APPLICATION PROCESSING

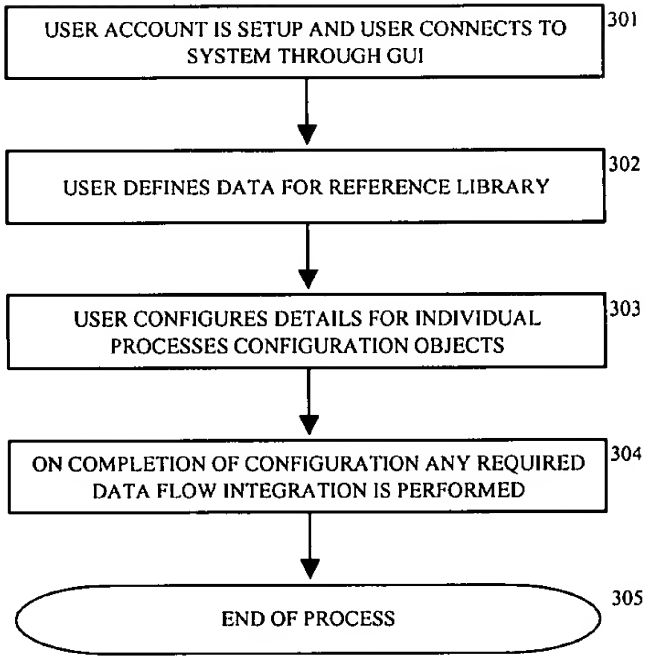

FIG. 3

AUTOMATED DATA PROCESSING
INITIAL DATA RECEIPT/EXTRACTION AND PROCESSING

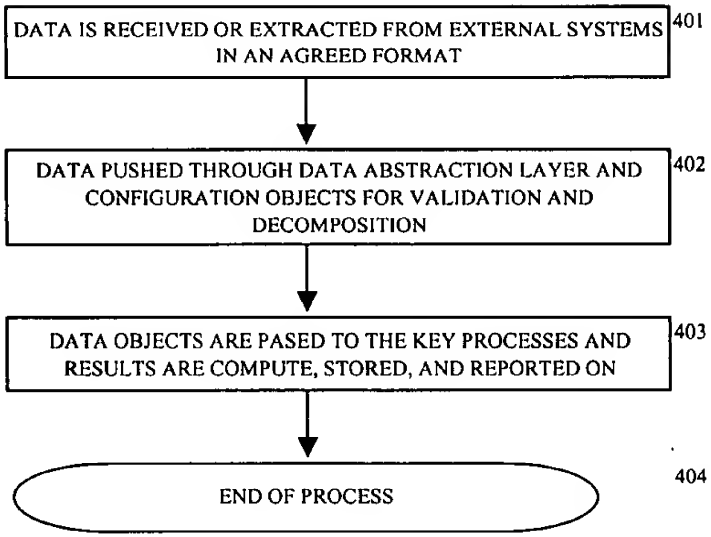

FIG. 4

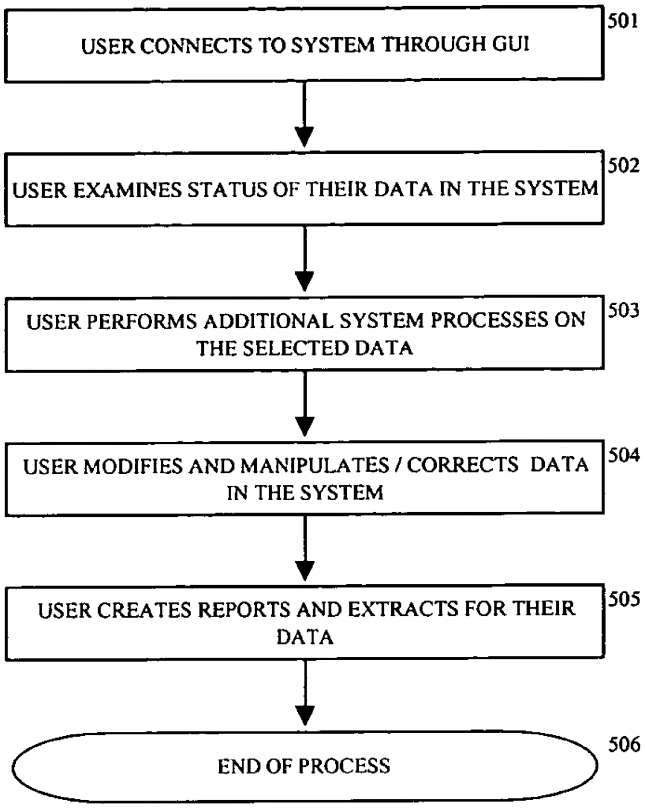

FIG. 5

Patent Application

Reconciliation Manager business process overview

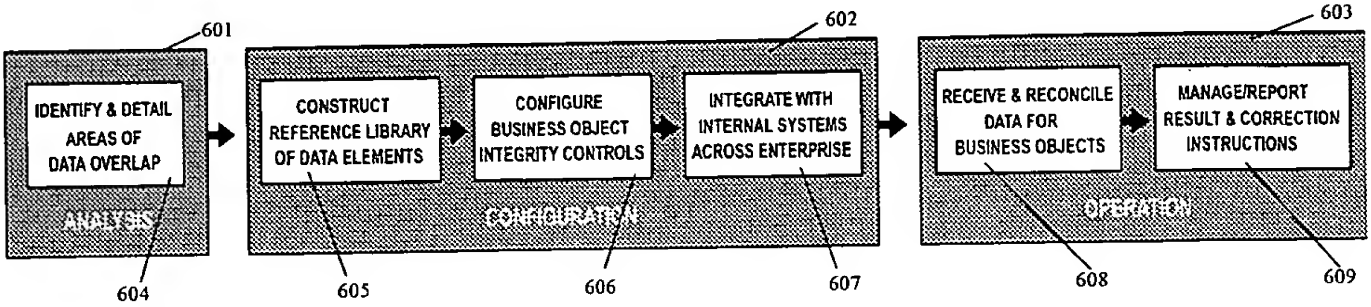

FIG. 6a

Reconciliation Manager operation overview

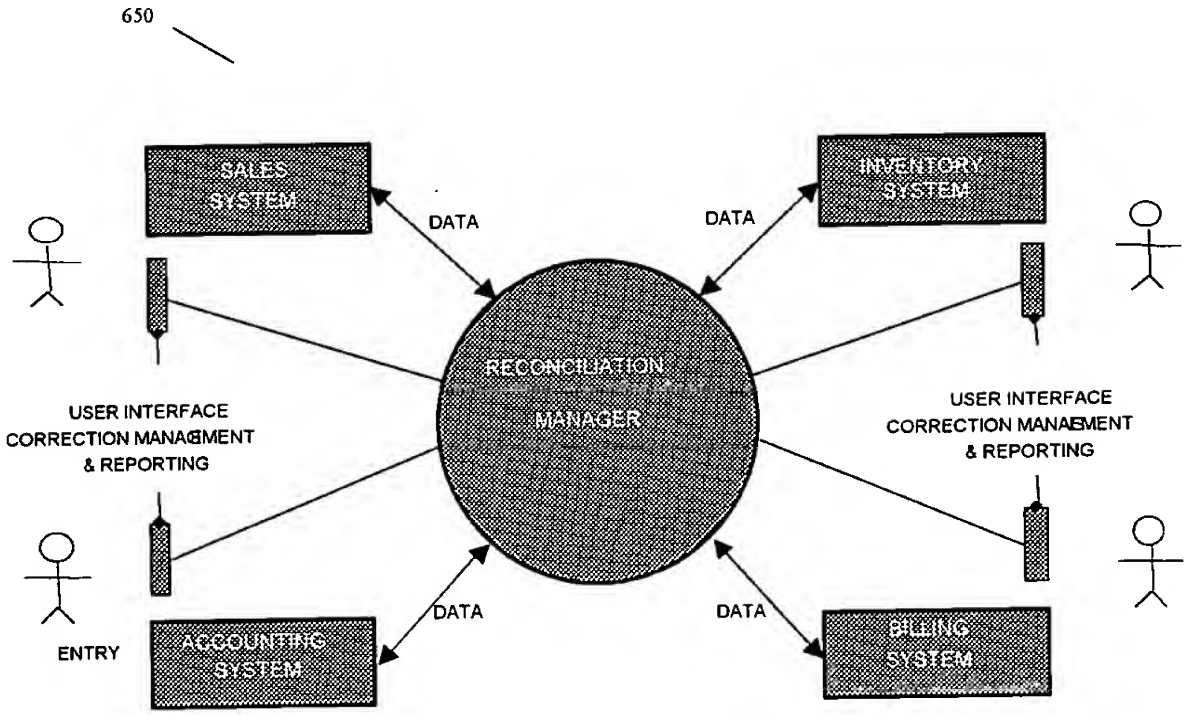

FIG. 6b

RECONCILIATION MANAGER
APPLICATION CONFIGURATION PROCESSES

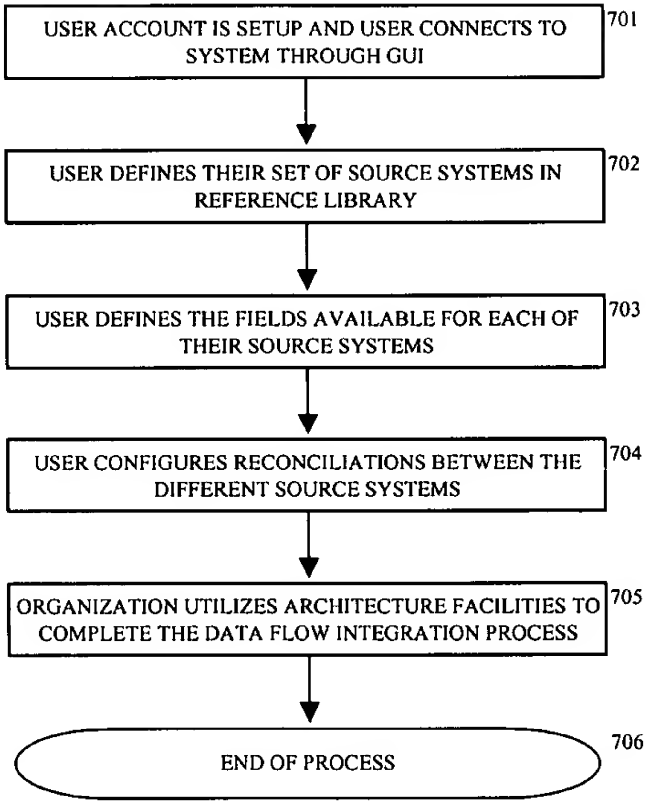

FIG. 7

AUTOMATED DATA PROCESSING
RECONCILIATION MANAGER DATA RECEIPT/EXTRACTION AND PROCESSING

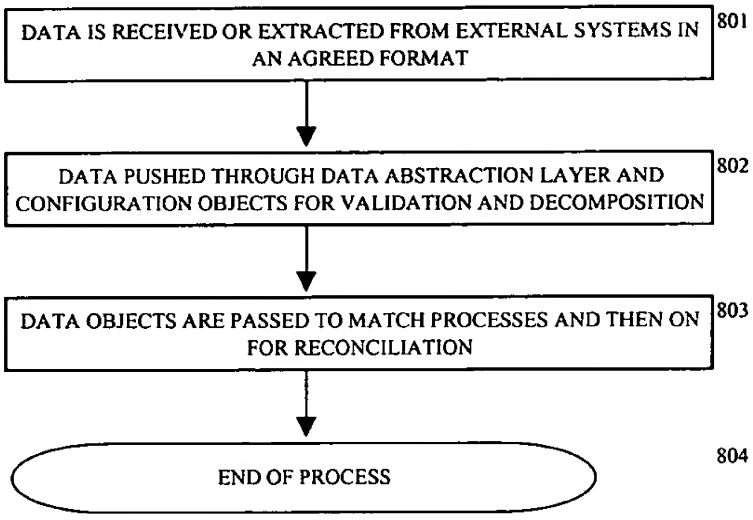

FIG. 8

Exhibit 1002 Page 0010

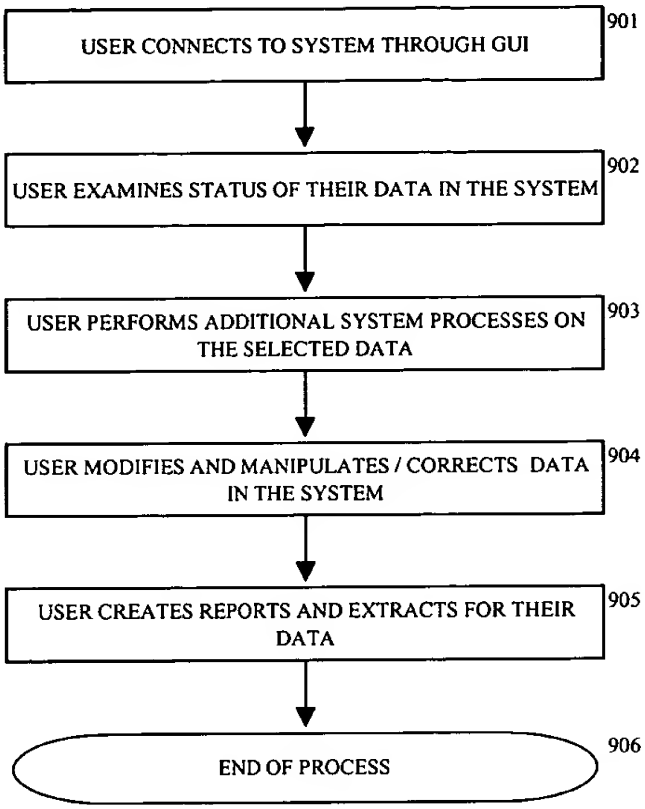

FIG. 9

Patent Application Publication

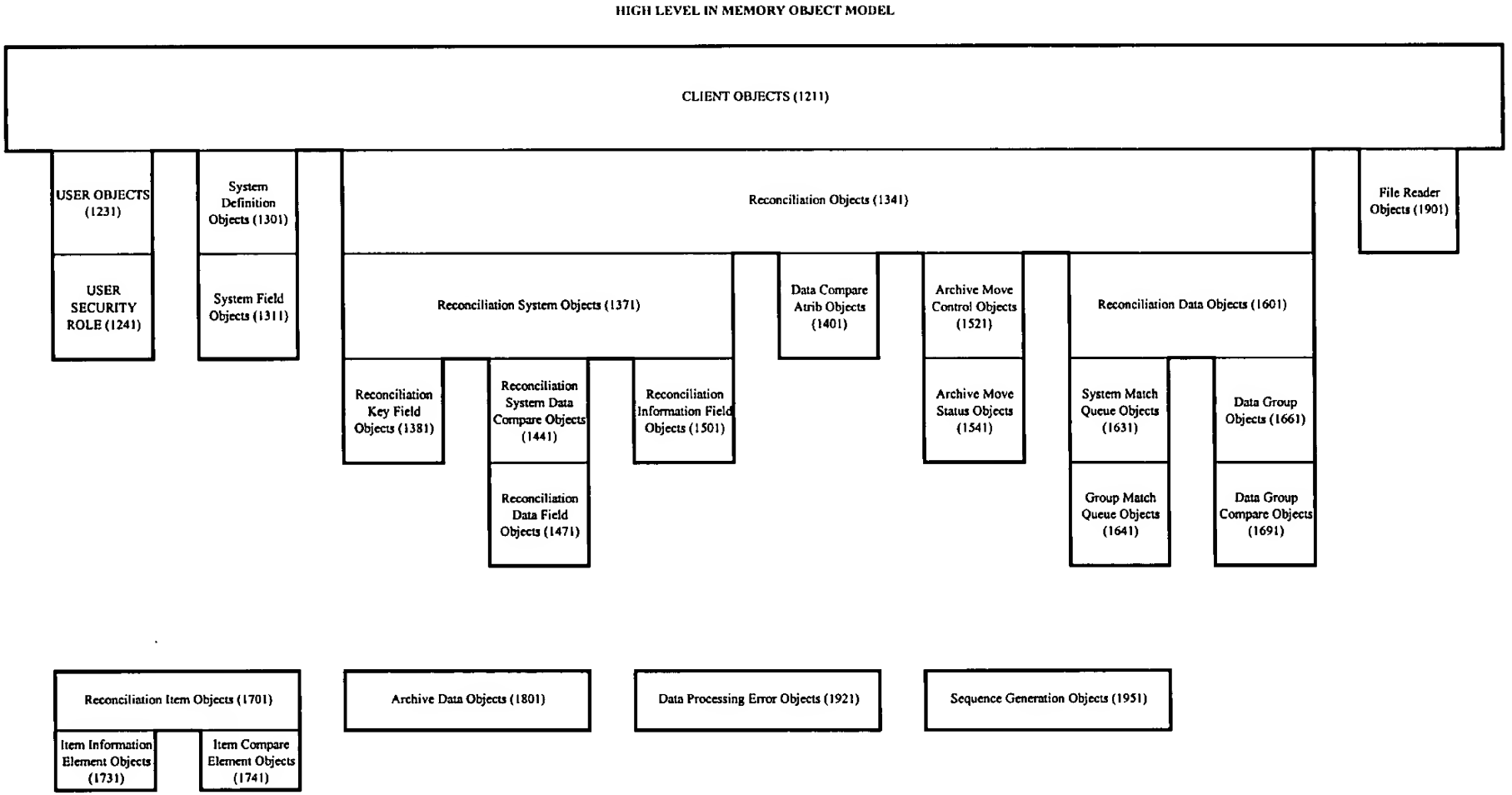
HIGH LEVEL IN MEMORY OBJECT MODEL
CLIENT OBJECTS (1211)
USER OBJECTS (1231)
USER SECURITY ROLE (1241)
System Definition Objects (1301)
System Field Objects (1311)
Reconciliation Objects (1341)
Reconciliation System Objects (1371)
Reconciliation Key Field Objects (1381)
Reconciliation System Data Compare Objects (1441)
Reconciliation Data Field Objects (1471)
Reconciliation Information Field Objects (1501)
Data Compare Atrib Objects (1401)
Archive Move Control Objects (1521)
Archive Move Status Objects (1541)
Reconciliation Data Objects (1601)
System Match Queue Objects (1631)
Group Match Queue Objects (1641)
Data Group Objects (1661)
Data Group Compare Objects (1691)
File Reader Objects (1901)
Reconciliation Item Objects (1701)
Item Information Element Objects (1731)
Item Compare Element Objects (1741)
Archive Data Objects (1801)
Data Processing Error Objects (1921)
Sequence Generation Objects (1951)

FIG. 10

USER INTERFACE ADAPTER PROGRAMS

	ADAPTER PROGRAM NAME	ADAPTER PROGRAM DESCRIPTION	RELATED IN MEMORY OBJECTS
1101	RHCLDISCLAIMFORM.JSP	PRODUCT LEGAL NOTICE DISPLAY INTERFACE	NONE
1102	RHLOGIN.JSP	USER LOGIN PROGRAM INTERFACE	CLIENT & USER
1103	RHMAIN.JSP	APPLICATION MAIN DISPLAY INTERFACE	VARIED
1104	RHMAINPROC.JSP	APPLICATION MAIN PROGRAM INTERFACE	VARIED
1105	RHCLCLIENTFORM.JSP	CLIENT OBJECT ADAPTER PROGRAMS	CLIENT
1106	RHCLIENTPRMDTLFORM.JSP	PRIMARY DETAILS DISPLAY / PROGRAM INTERFACE	CLIENT
1107	RHCLIENTSECDTLFORM.JSP	SECONDARY DETAILS DISPLAY / PROGRAM INTERFACE	CLIENT
1108	RHCLIENTNAMEFORM.JSP	NAME MODIFICATION INTERFACE	CLIENT
1109	RHCLIENTHEADERFORM.JSP	HEADER MODIFICATION INTERFACE	CLIENT
1110	RHCLIENTCLDIRSFORM.JSP	CLIENT SIDE DIRECTORIES MODIFICATION INTERFACE	CLIENT
1111	RHCLIENTSRVDIRSFORM.JSP	SERVER SIDE DIRECTORIES MODIFICATION INTERFACE	CLIENT
1112	RHCLUSERFORM.JSP	USER AND USER SECURITY OBJECT ADAPTER PROGRAMS	USER
1113	RHUSERFORM.JSP	USER DETAILS DISPLAY / PROGRAM INTERFACE	USER
1114	RHUSERPREFSFORM.JSP	USER PREFERENCES DISPLAY / PROGRAM INTERFACE	USER
1115	RHUSERADDCHNGFORM.JSP	USER ADD / MODIFICATION INTERFACE	USER
1116	RHUSERSECROLEFORM.JSP	USER SECURITY DISPLAY / CHANGE MODIFICATION INTERFACE	USER SECURITY ROLE
1117	RHCLSYSFORM.JSP	SYSTEM AND SYSTEM FIELDS OBJECT ADAPTER PROGRAMS	SYSTEM
1118	RHSYSFORM.JSP	SYSTEM DISPLAY / PROGRAM INTERFACE	SYSTEM
1119	RHSYSADDFORM.JSP	SYSTEM ADD INTERFACE	SYSTEM
1120	RHSYSFLDFORM.JSP	SYSTEM FIELD DISPLAY / PROGRAM INTERFACE	SYSTEM FIELD
1121	RHSYSFLDADDFORM.JSP	SYSTEM FIELD ADD INTERFACE	SYSTEM FIELD
1122	RHCLRECFORM.JSP	RECONCILIATION AND RECONCILIATION SUB OBJECT ADAPTER PROGRAM	RECONCILIATION
1123	RHCLRECPROC.JSP	RECONCILIATION PROGRAM INTERFACE	RECONCILIATION
1124	RHRECFORM.JSP	RECONCILIATION DISPLAY / PROGRAM INTERFACE	RECONCILIATION
1125	RHRECADDFORM.JSP	RECONCILIATION ADD INTERFACE	RECONCILIATION
1126	RHRECSYSFORM.JSP	RECONCILIATION SYSTEM DISPLAY / PROGRAM INTERFACE	RECONCILIATION SYSTEM
1127	RHRECSYSADDFORM.JSP	RECONCILIATION SYSTEM ADD INTERFACE	RECONCILIATION SYSTEM
1128	RHRECKEYFORM.JSP	RECONCILIATION KEY FIELD DISPLAY / PROGRAM INTERFACE	RECONCILIATION KEY FIELD
1129	RHRECKEYADDFORM.JSP	RECONCILIATION KEY FIELD ADD INTERFACE	RECONCILIATION KEY FIELD
1130	RHRECDATFORM.JSP	RECONCILIATION DATA DEFINITION DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA COMPARE &DATA COMPARE ATRIB
1131	RHRECDATCMPFORM.JSP	RECONCILIATION DATA DEFINITION ADD / MODIFICATION INTERFACE	RECONCILIATION DATA COMPARE &DATA COMPARE ATRIB
1132	RHRECDATFLDADDFORM.JSP	RECONCILIATION DATA FIELD ADD INTERFACE	RECONCILIATION DATA FIELD
1133	RHRECINFFORM.JSP	RECONCILIATION INFORMATION DISPLAY / PROGRAM INTERFACE	RECONCILIATION INFORMATION FIELD
1134	RHRECINFADDFORM.JSP	RECONCILIATION INFORMATION ADD INTERFACE	RECONCILIATION INFORMATION FIELD
1135	RHRECARCHFORM.JSP	RECONCILIATION ARCHIVE CONTROL DISPLAY / PROGRAM INTERFACE	ARCHIVE MOVE CONTROL & ARCHIVE MOVE STATUS
1136	RHRECARCHADDFORM.JSP	RECONCILIATION ARCHIVE CONTROL ADD INTERFACE	ARCHIVE MOVE CONTROL
1137	RHRECARCHSTATADDFORM.JSP	RECONCILIATION ARCHIVE STATUS ADD INTERFACE	ARCHIVE MOVE STATUS
1138	RHRECOPTFORM.JSP	RECONCILIATION OPTIONS DISPLAY / PROGRAM INTERFACE	RECONCILIATION
1139	RHCLDATFORM.JSP	RECONCILIATION DATA ADAPTER PROGRAMS	RECONCILIATION DATA OBJECTS
1140	RHCLDATPROC.JSP	RECONCILIATION DATA PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1141	RHDATRECFORM.JSP	RECONCILIATION DATA DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1142	RHDATRECPROC.JSP	RECONCILIATION DATA PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1143	RHGRPDETAILFORM.JSP	RECONCILIATION DATA DETAIL DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1144	RHDATFLTRFORM.JSP	RECONCILIATION DATA FILTER INTERFACE	RECONCILIATION DATA OBJECTS
1145	RHDATSTATFORM.JSP	RECONCILIATION DATA STATUS DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1146	RHCLRPTFORM.JSP	RECONCILIATION REPORT ADAPTER PROGRAMS	RECONCILIATION DATA OBJECTS
1147	RHRPTEXPFORM.JSP	RECONCILIATION REPORT EXPORT PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1148	RHRPTRECFORM.JSP	RECONCILIATION REPORT DISPLAY / PROGRAM INTERFACE	RECONCILIATION DATA OBJECTS
1149	RHRPTFLTRFORM.JSP	RECONCILIATION REPORT FILTER INTERFACE	RECONCILIATION DATA OBJECTS
1150	RHRPTSTATFORM.JSP	RECONCILIATION REPORT STATUS DISPLAY INTERFACE	RECONCILIATION DATA OBJECTS
1151	RHCLARCHFORM.JSP	ARCHIVE DATA ADAPTER PROGRAMS	ARCHIVE DATA
1152	RHDATARCHFORM.JSP	ARCHIVE DATA DISPLAY INTERFACE	ARCHIVE DATA
1153	RHDATARCHPROC.JSP	ARCHIVE DATA PROGRAM INTERFACE	ARCHIVE DATA
1154	RHDATARCHGRPDETAILFORM.JSI	ARCHIVE DATA DETAIL DISPLAY INTERFACE	ARCHIVE DATA
1155	RHARCHSTATFORM.JSP	ARCHIVE DATA STATUS DISPLAY INTERFACE	ARCHIVE DATA
1156	RHCLDATPROCERRORSFORM.JSP	DATA PROCESSING ERRORS ADAPTER PROGRAMS	DATA PROCESSING ERRORS
1157	RHDATPROCERRORSFORM.JSP	DATA PROCESSING ERRORS DISPLAY / PROGRAM INTERFACE	DATA PROCESSING ERRORS
1158	RHCLFRDRFORM.JSP	FILE READER ADAPTER PROGRAMS	FILE READER
1159	RHCLFRDRPROC.JSP	FILE READER PROGRAM INTERFACE	FILE READER
1160	RHFRDRFORM.JSP	FILE READER DISPLAY INTERFACE	FILE READER
1161	RHFRDRADDFORM.JSP	FILE READER ADD INTERFACE	FILE READER
1162	RHCLARCHGRPMVECNTRFORM.J	ARCHIVE MOVE CONTROL ADAPTER PROGRAMS	ARCHIVE MOVE CONTROL
1163	RHCLARCHGRPMVECNTRPROC.JS	ARCHIVE MOVE CONTROL PROGRAM INTERFACE	ARCHIVE MOVE CONTROL
1164	RHARCHGRPMVECNTRFORM.JSP	ARCHIVE MOVE CONTROL DISPLAY INTERFACE	ARCHIVE MOVE CONTROL
1165	RHCLABOUTFORM.JSP	PRODUCT INFORMATION DISPLAY INTERFACE	NONE
1166	RHJAVADOC.JSP	SYSTEM DOCUMENTATION INTERFACE	NONE
1167	RHCONTEXTHELPFORM.JSP	APPLICATION CONTEXT HELP DISPLAY / PROGRAM INTERFACE	CONTEXT HELP
1168	RHCOMMONMETHODS.JSP	APPLICATION SHARED METHODS PROGRAM INTERFACE	VARIED
1169	RHCOMMONSCRIPTS.JSP	APPLICATION SHARED SCRIPTS PROGRAM INTERFACE	NONE
1170	RHCOMMONSTYLES.CSS	APPLICATION SHARED SCREEN FORMATTING CODES	NONE

FIG. 11

IN MEMORY BASE, CLIENT, USER, AND SECURITY OBJECTS

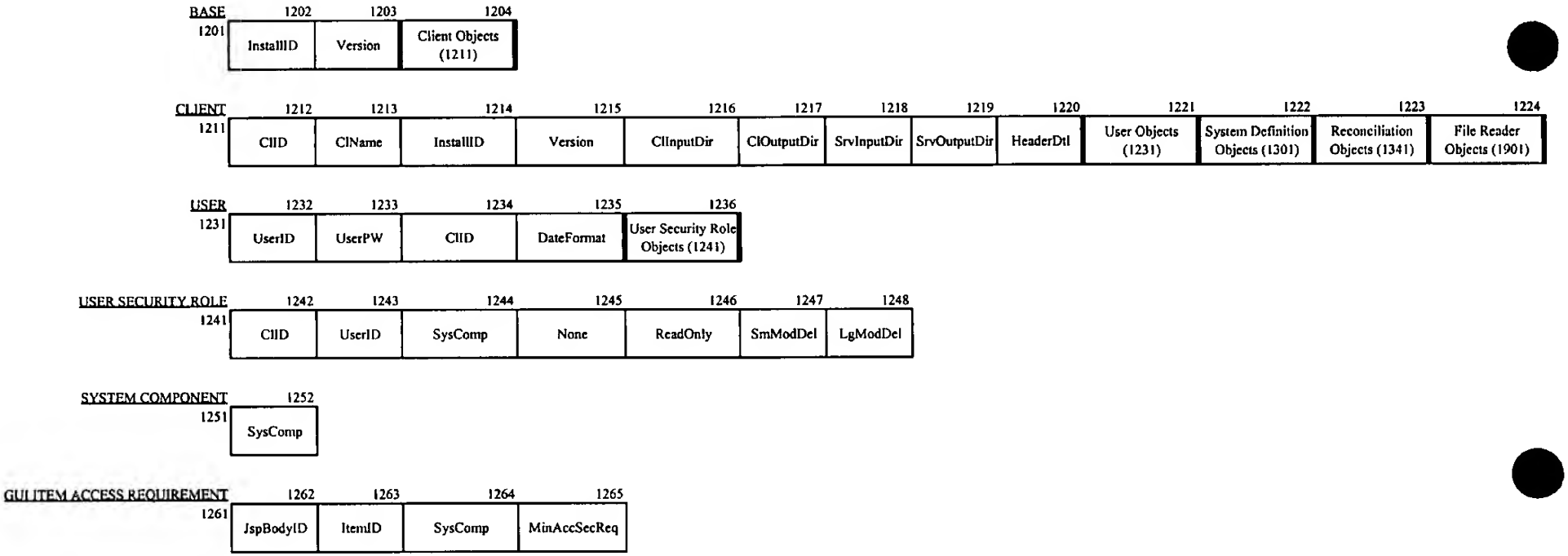

FIG. 12

IN MEMORY REFERENCE LIBRARY OBJECTS

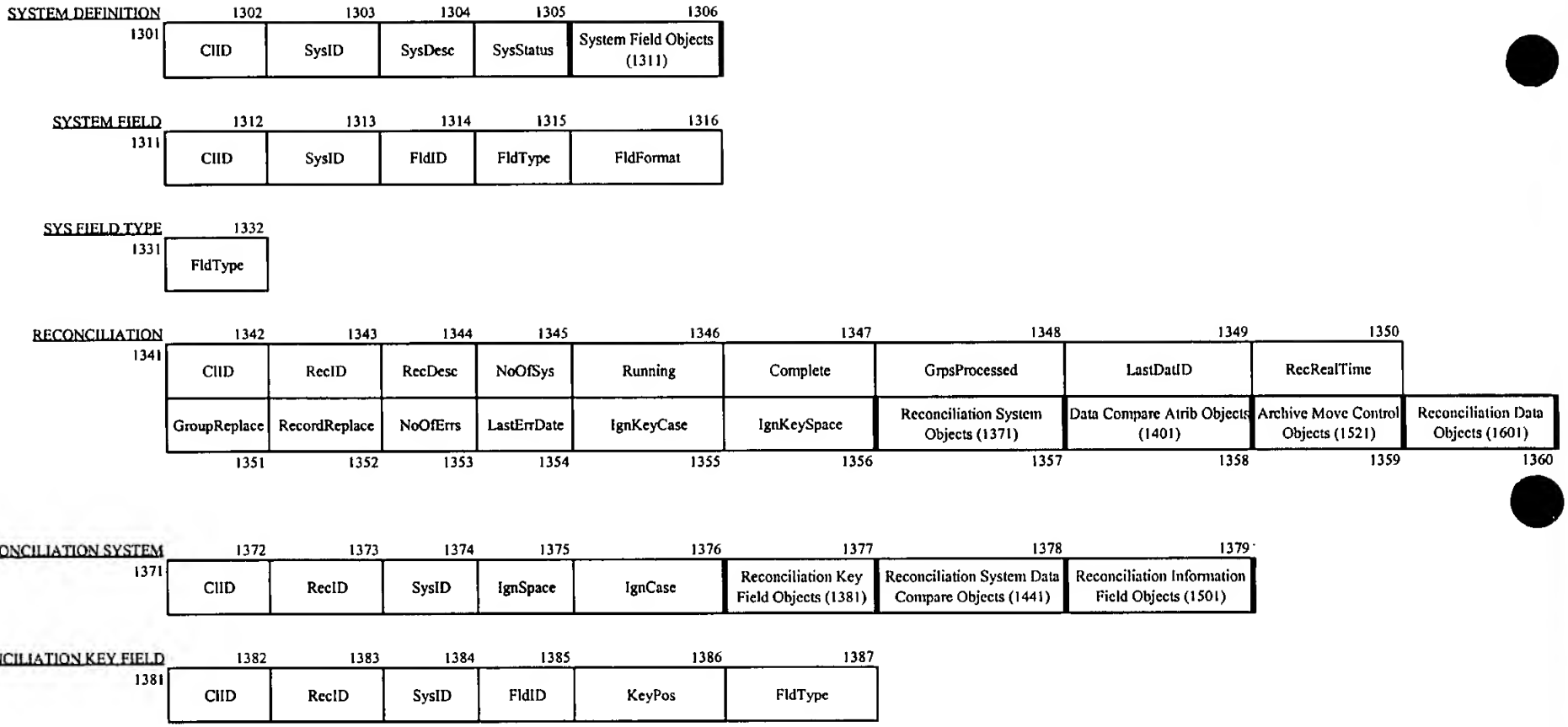

FIG. 13

IN MEMORY REFERENCE LIBRARY OBJECTS

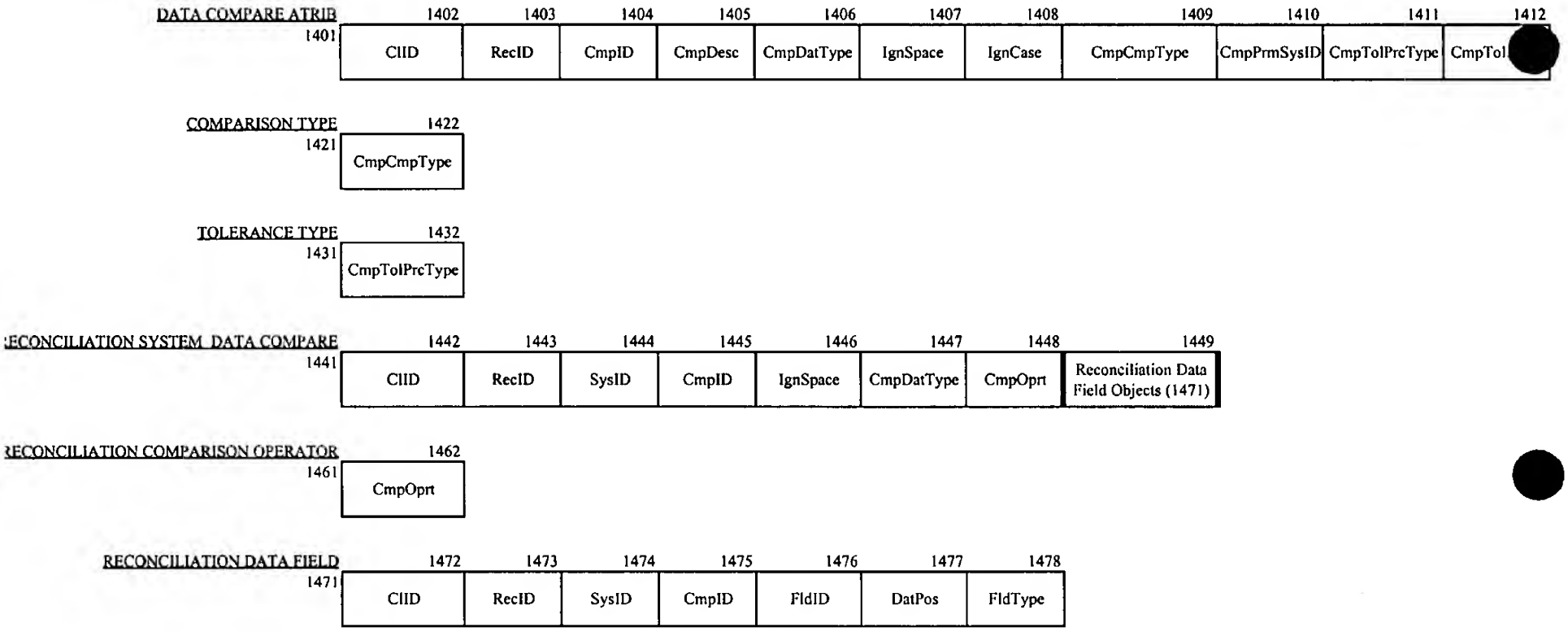

FIG. 14

IN MEMORY REFERENCE LIBRARY OBJECTS

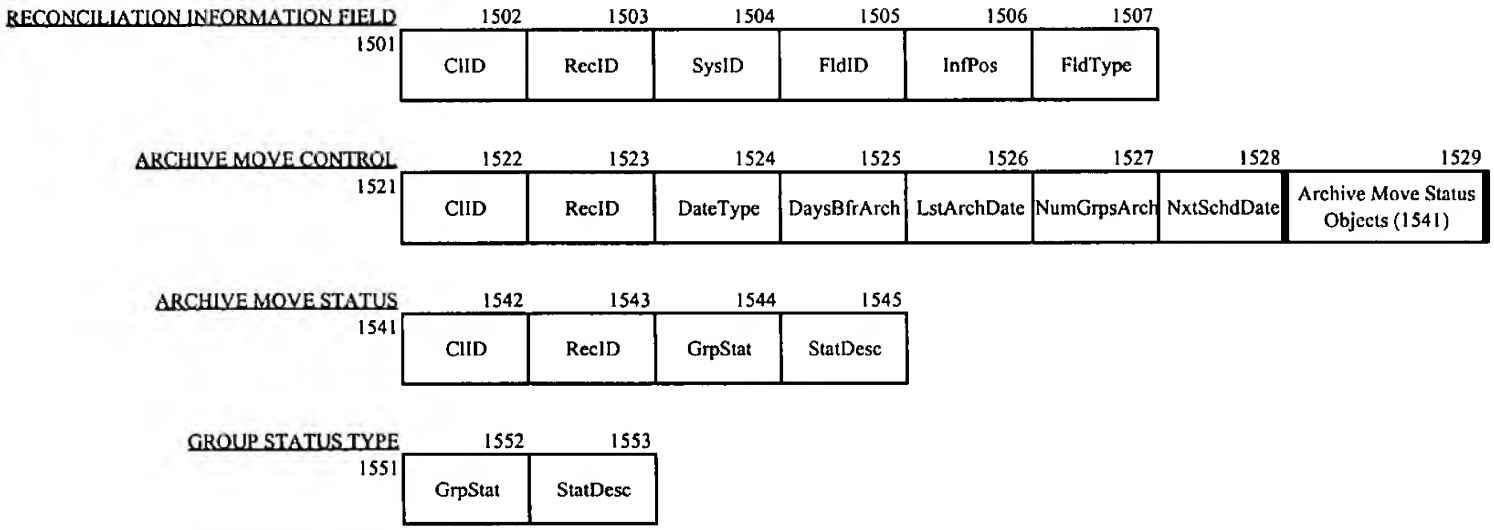

FIG. 15

IN MEMORY RECONCILIATION DATA MANIPULATION OBJECTS

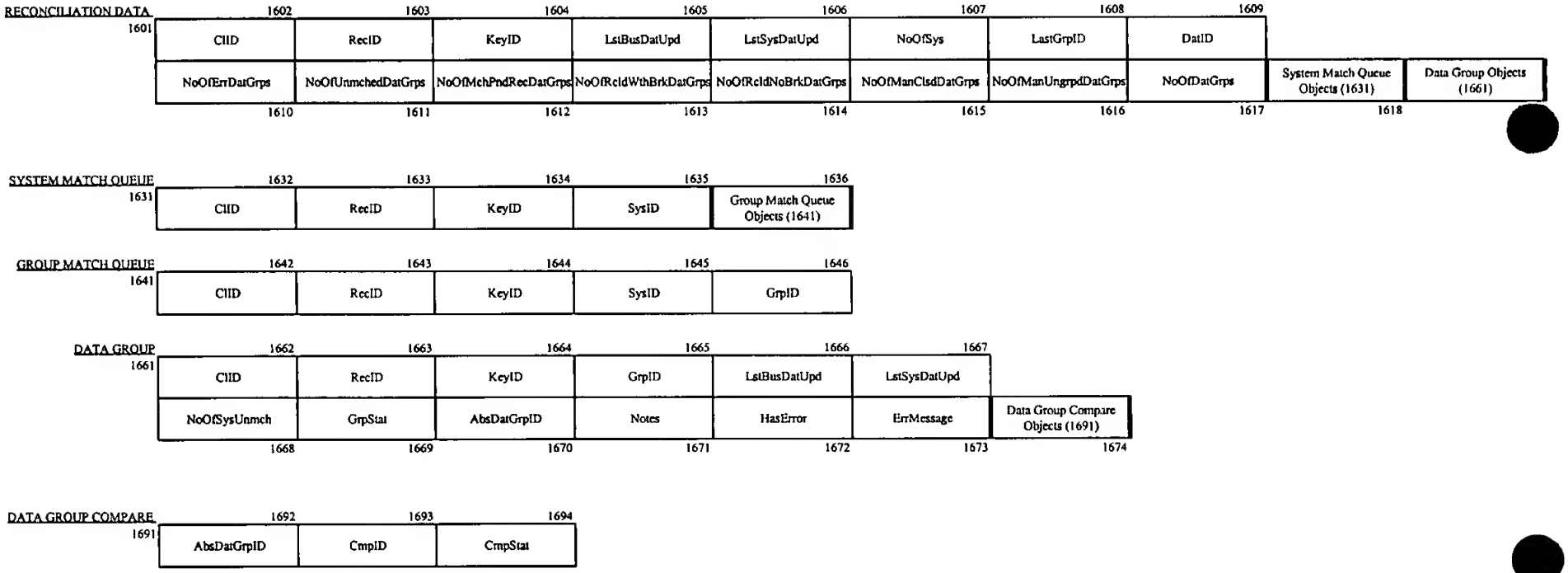

FIG. 16

IN MEMORY RECONCILIATION DATA MANIPULATION OBJECTS

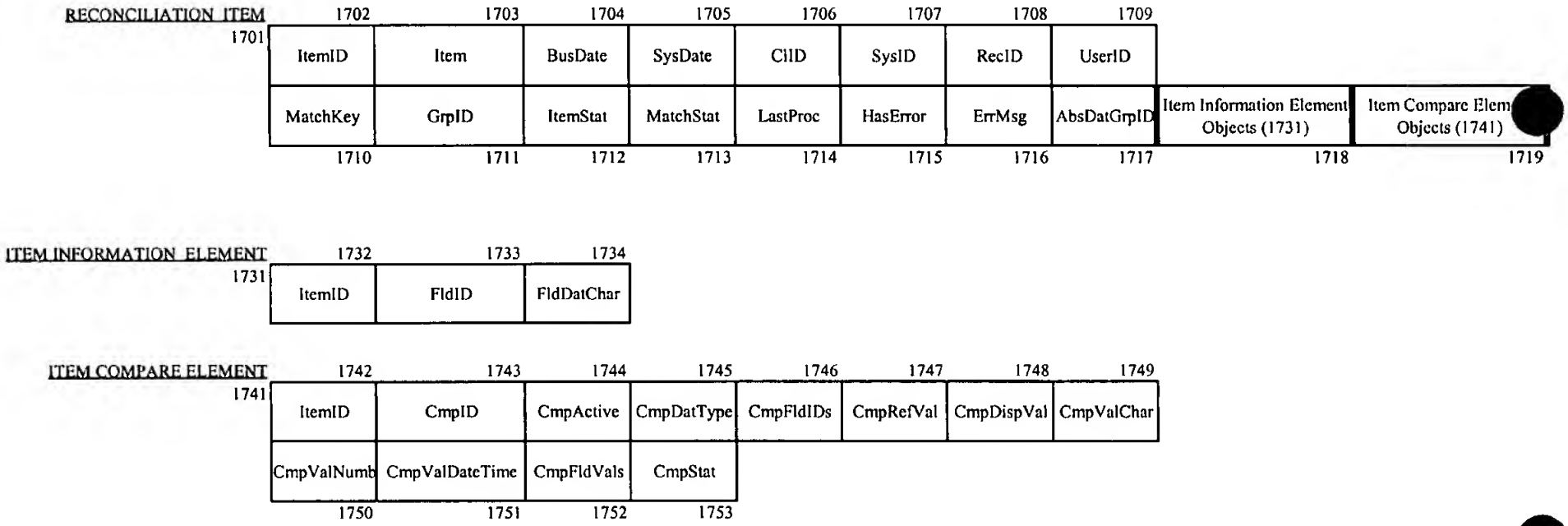

FIG. 17

IN MEMORY ARCHIVE DATA MANIPULATION OBJECTS

ARCHIVE DATA 1801

1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	
ArchGrpID	CIID	RecID	KeyID	OrigGrpID	LstBusDatUpd	LstSysDatUpd	NoOfSysUnmched	GrpStat	OrigAbsGrpID	OrigGrpNotes	
OrigGrpHasError	OrigGrpErrMessage	GrpMchQueData	DatGrpCmpData	RecItemMinBusDate	RecItemMaxBusDate	RecItemMinSysDate	RecItemMaxSysDate	RecItemOrigText	RecItemData	RecItemInfLmntData	RecItemCmpLmntData
1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824

FIG. 18

MISCELLANEOUS IN MEMORY OBJECTS

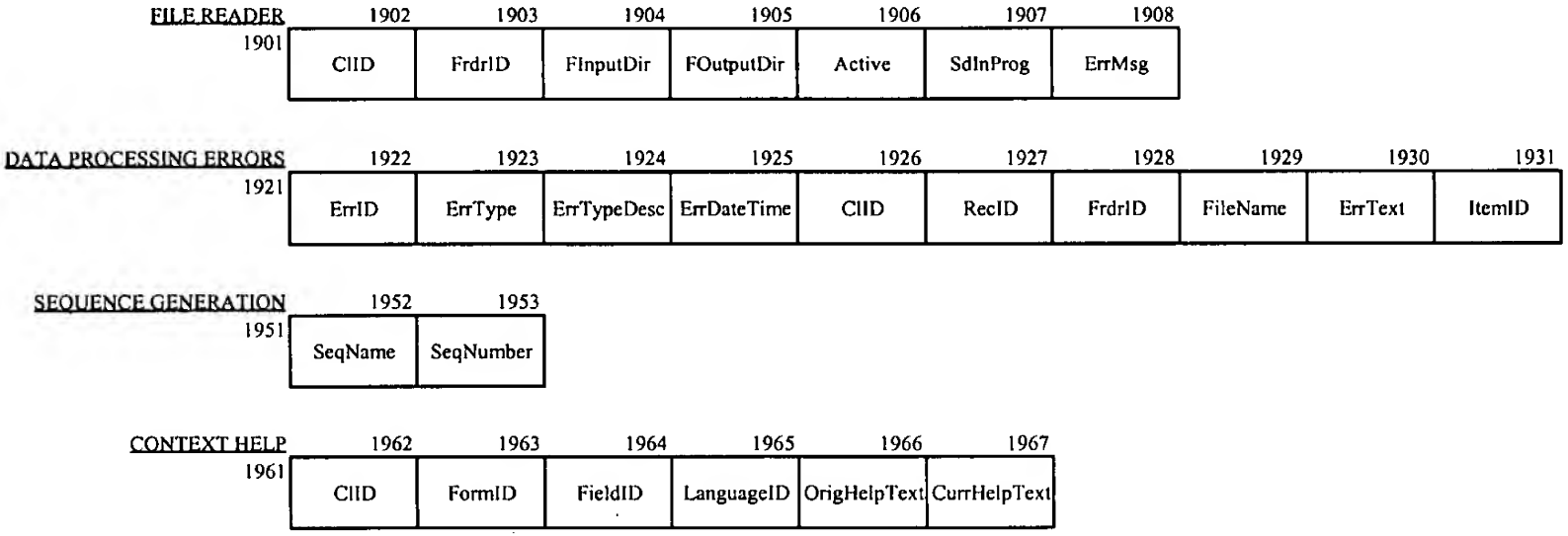

FIG. 19

DATABASE TABLES

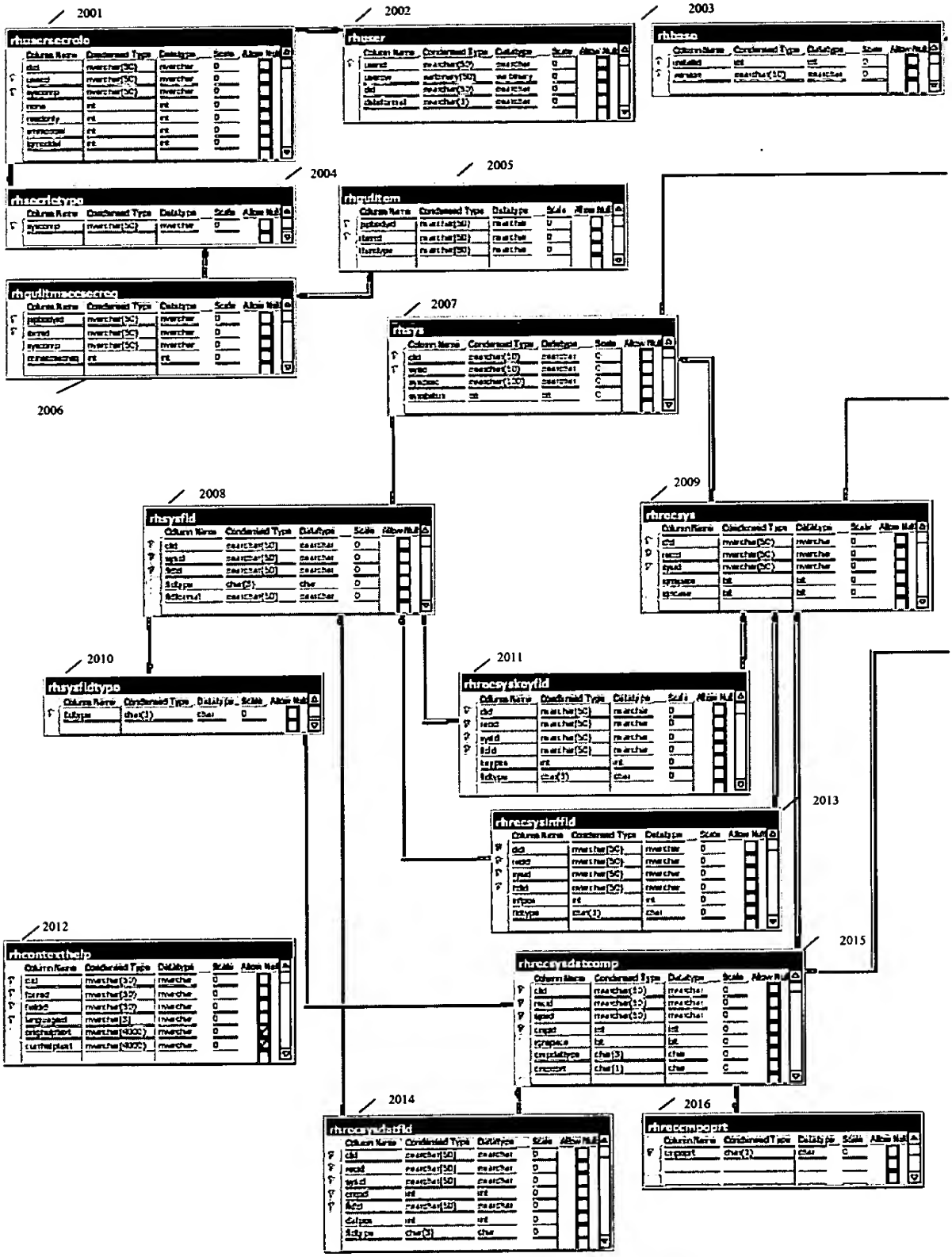

FIG. 20

DATABASE TABLES

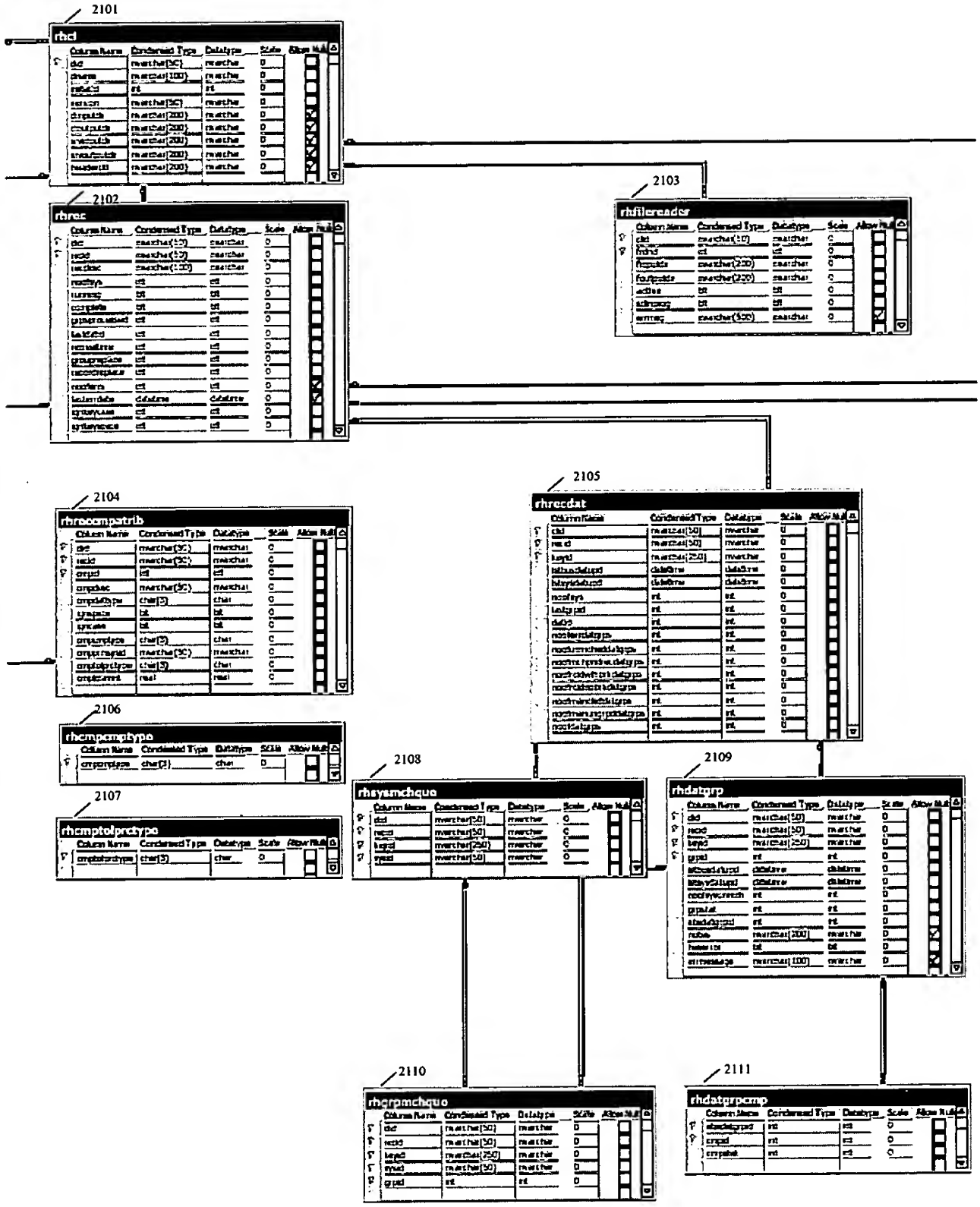

FIG. 21

DATABASE TABLES

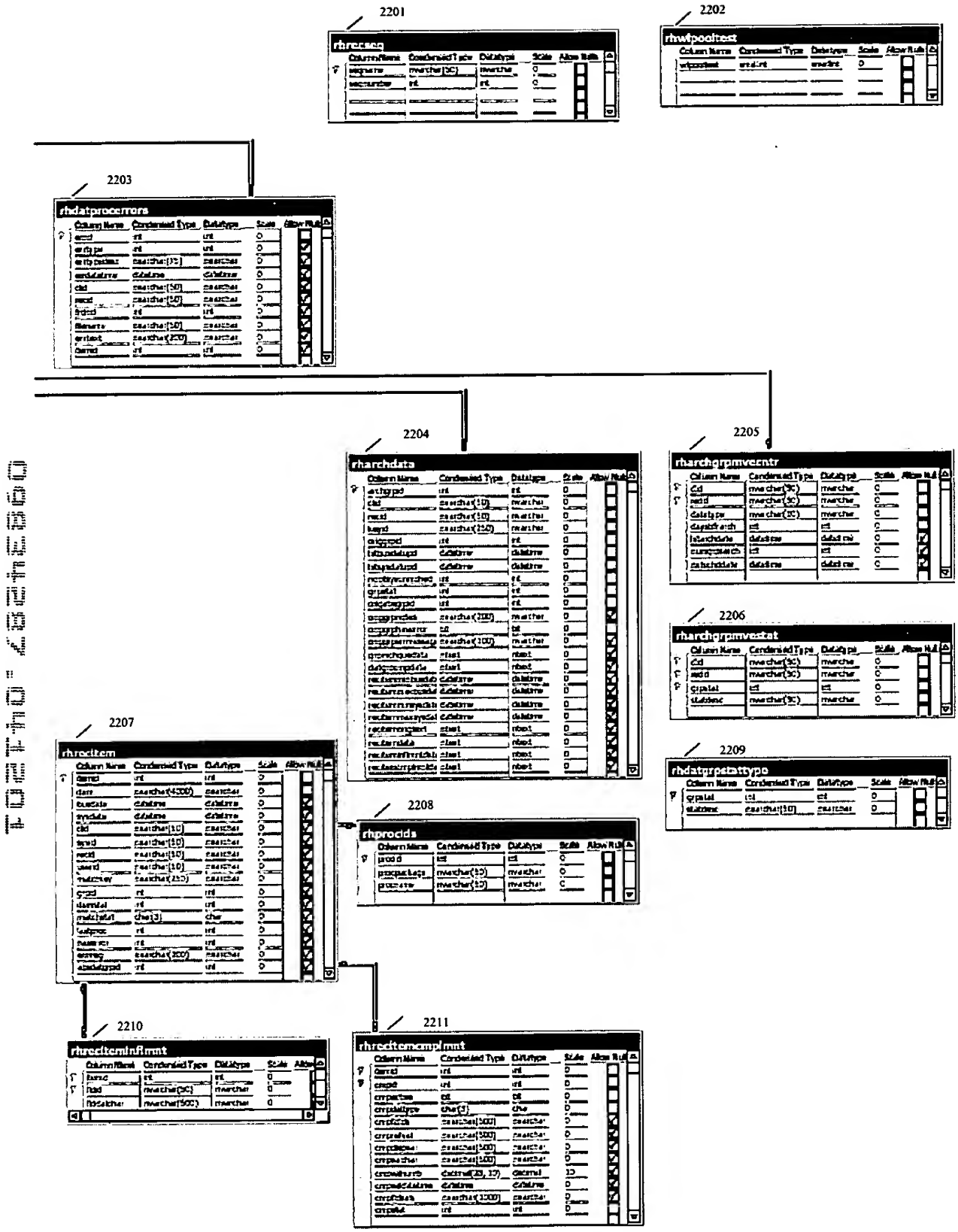

FIG. 22

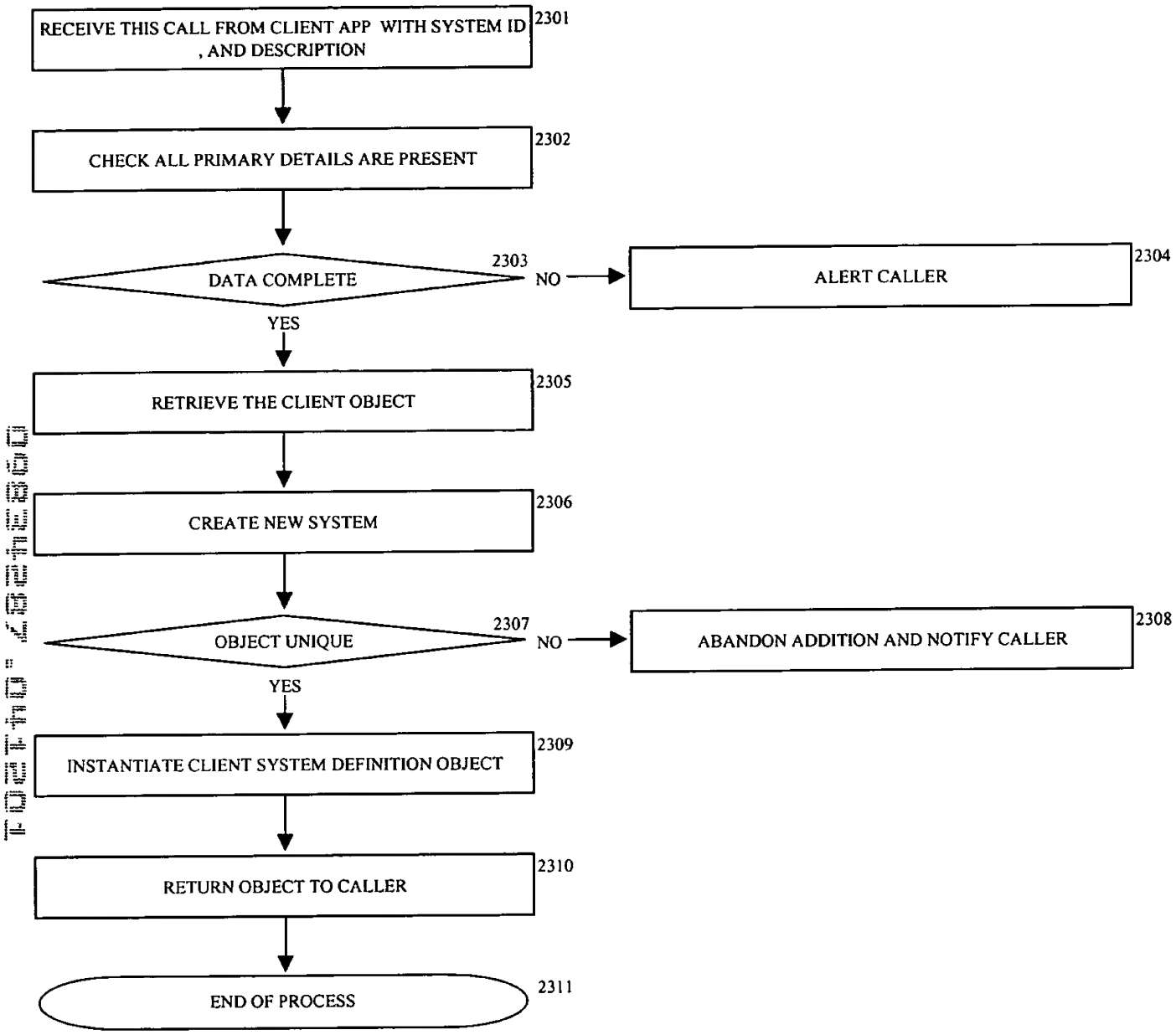
RECEIVE THIS CALL FROM CLIENT APP WITH SYSTEM ID , AND DESCRIPTION
2301
CHECK ALL PRIMARY DETAILS ARE PRESENT
2302
DATA COMPLETE
2303
NO
ALERT CALLER
2304
YES
RETRIEVE THE CLIENT OBJECT
2305
CREATE NEW SYSTEM
2306
OBJECT UNIQUE
2307
NO
ABANDON ADDITION AND NOTIFY CALLER
2308
YES
INSTANTIATE CLIENT SYSTEM DEFINITION OBJECT
2309
RETURN OBJECT TO CALLER
2310
END OF PROCESS
2311

FIG. 23

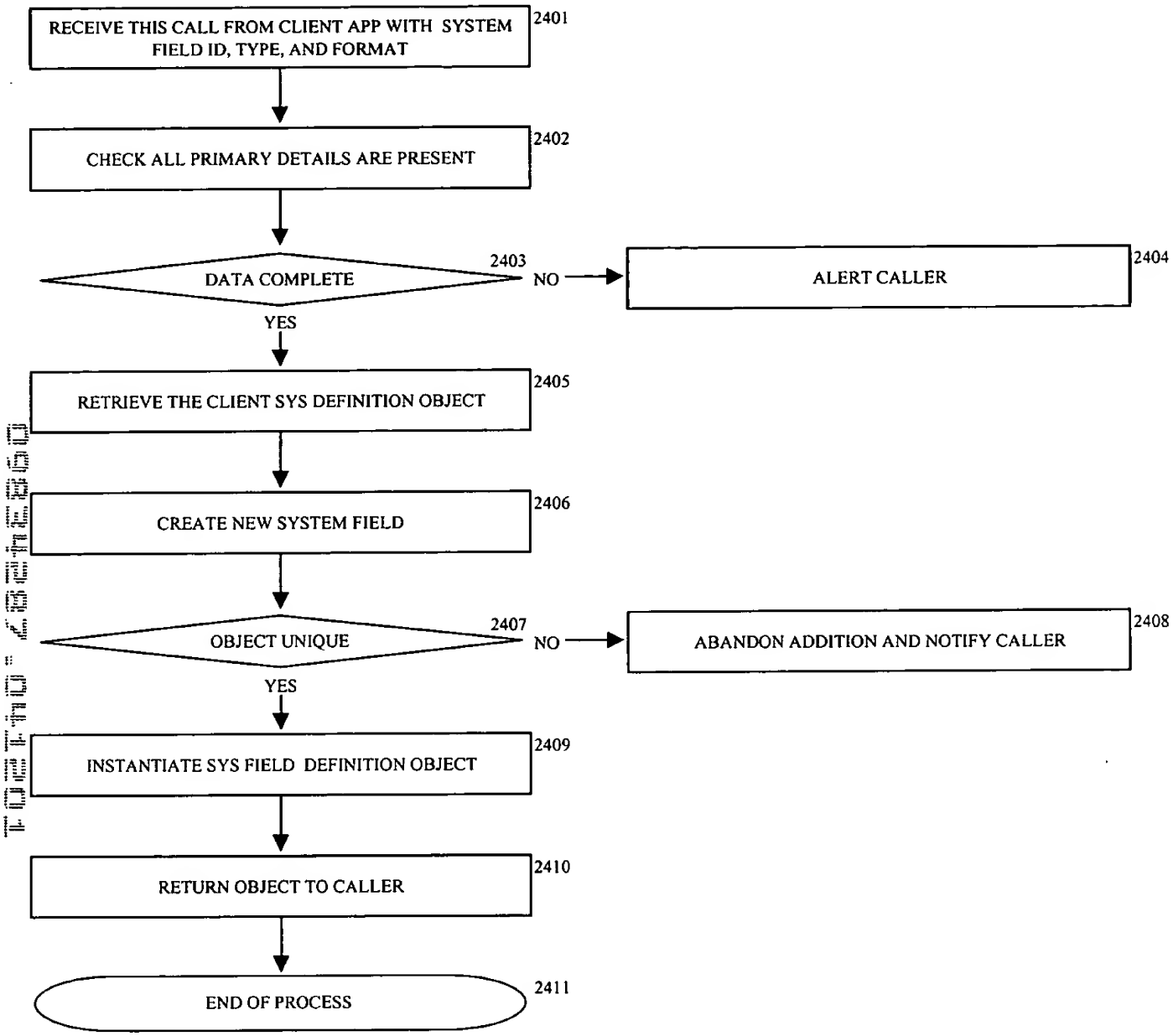
RECEIVE THIS CALL FROM CLIENT APP WITH SYSTEM FIELD ID, TYPE, AND FORMAT
2401
CHECK ALL PRIMARY DETAILS ARE PRESENT
2402
DATA COMPLETE
2403
NO
ALERT CALLER
2404
YES
RETRIEVE THE CLIENT SYS DEFINITION OBJECT
2405
CREATE NEW SYSTEM FIELD
2406
OBJECT UNIQUE
2407
NO
ABANDON ADDITION AND NOTIFY CALLER
2408
YES
INSTANTIATE SYS FIELD DEFINITION OBJECT
2409
RETURN OBJECT TO CALLER
2410
END OF PROCESS
2411

FIG. 24

REFERENCE LIBRARY PROCESSES
CREATE RECONCILIATION DEFINITION

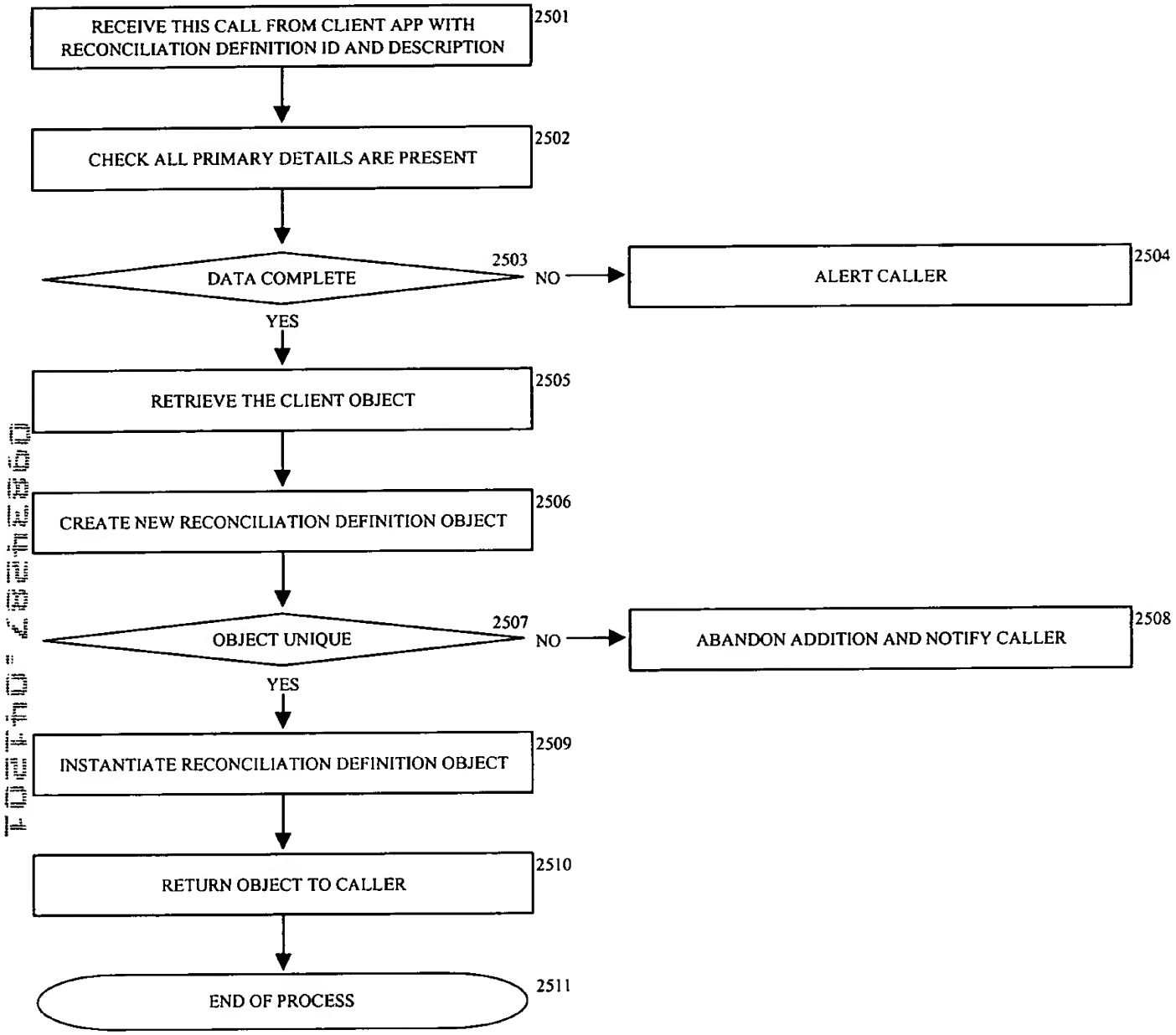

FIG. 25

REFERENCE LIBRARY PROCESSES
ADD SOURCE SYSTEM TO RECONCILIATION DEFINITION

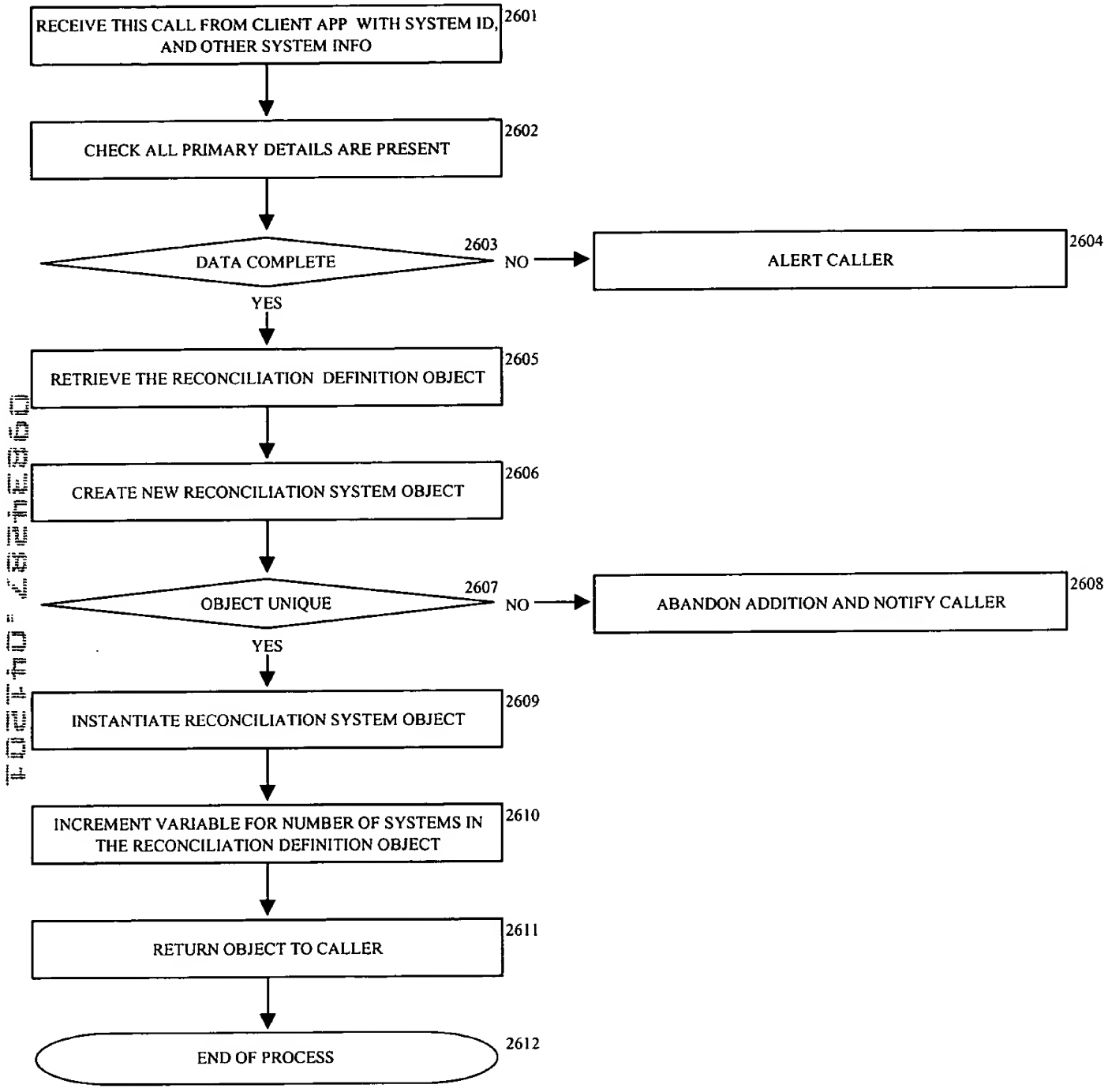

FIG. 26

REFERENCE LIBRARY PROCESSES
ADD KEY FIELD TO RECONCILIATION SYSTEM

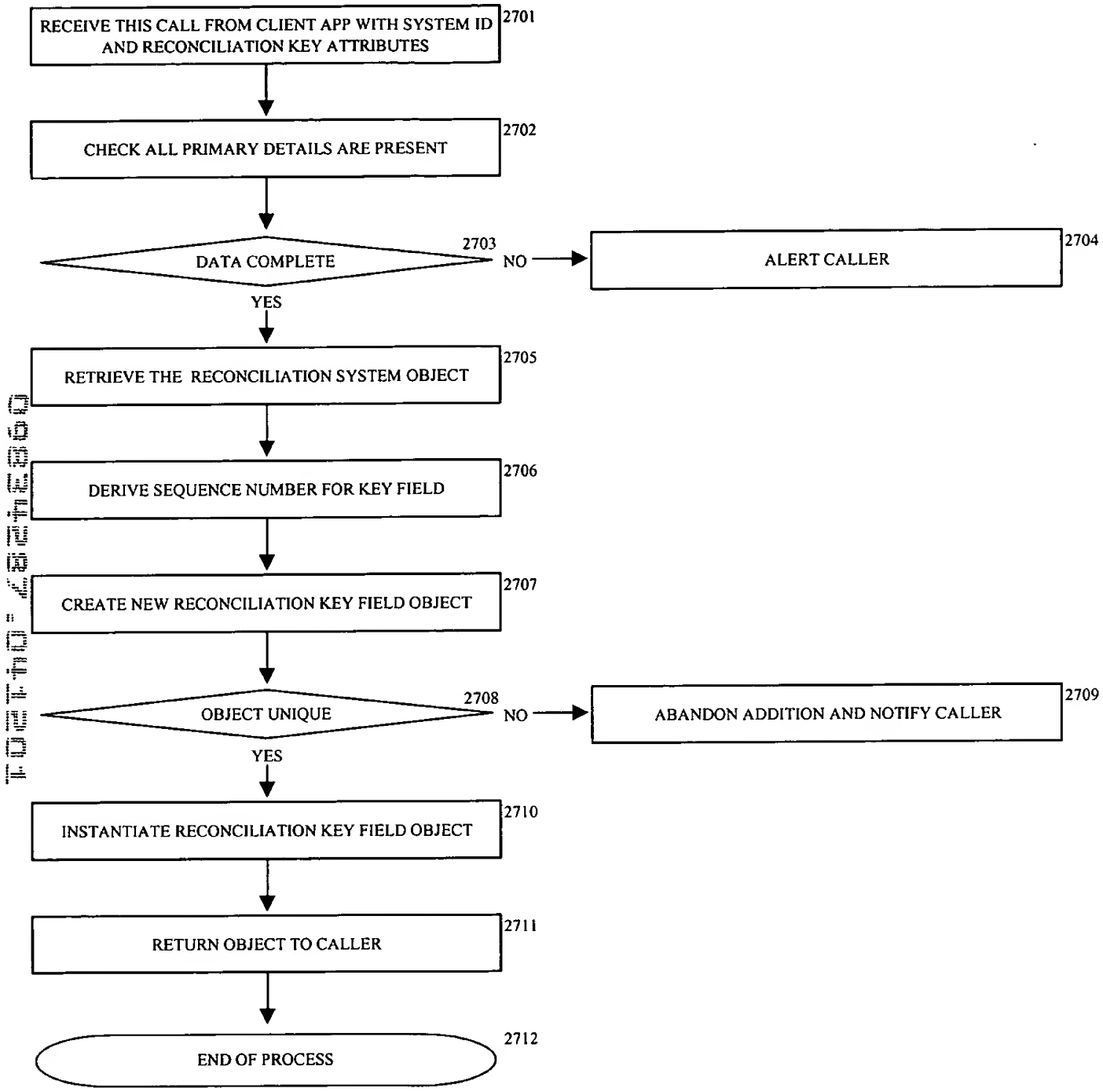

FIG. 27

REFERENCE LIBRARY PROCESSES
CREATE DATA COMPARISON IN RECONCILIATION DEFINITION

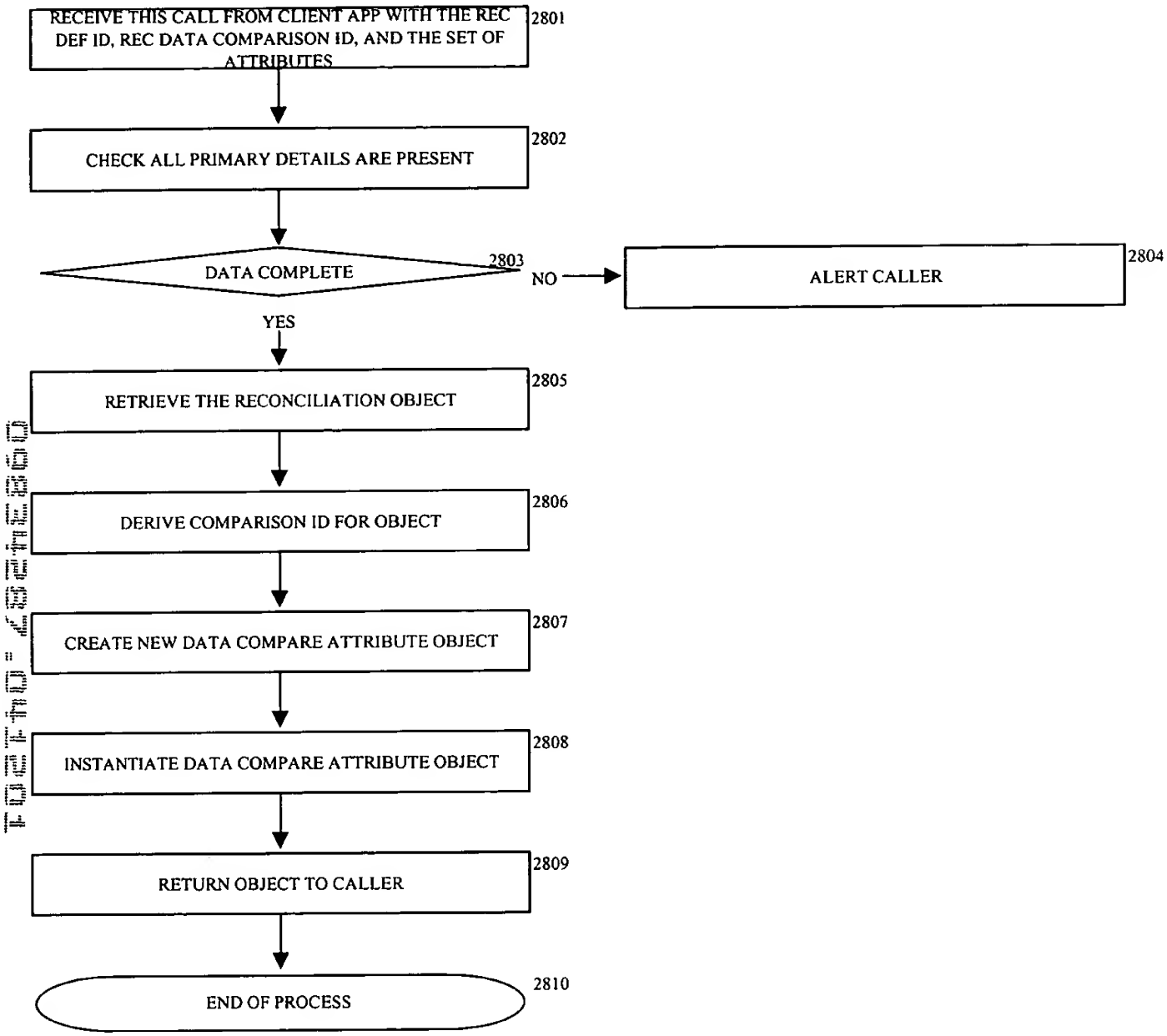

FIG. 28

REFERENCE LIBRARY PROCESSES
ADD DATA FIELD TO RECONCILIATION SYSTEM DATA COMPARISON

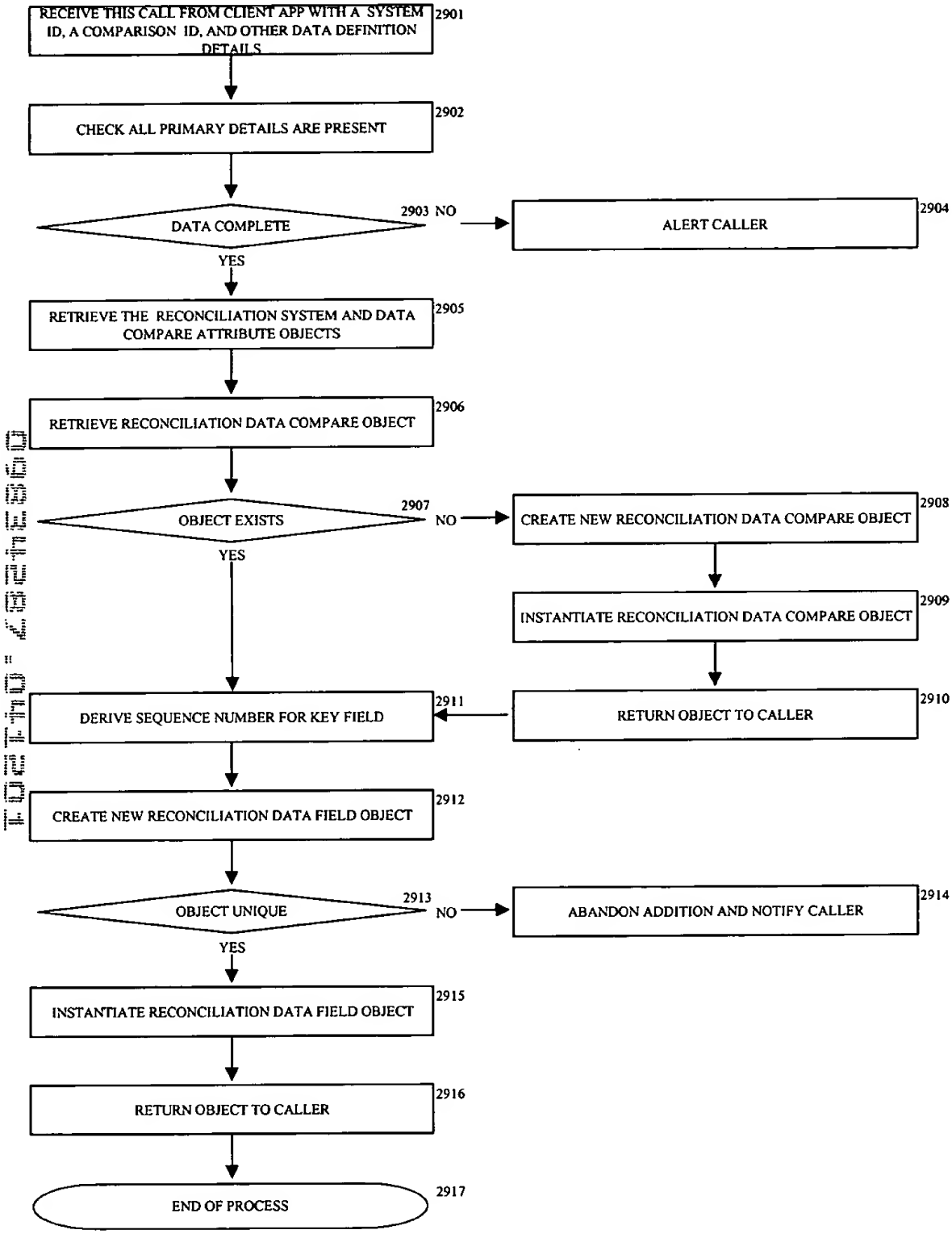

FIG. 29

REFERENCE LIBRARY PROCESSES
ADD INFORMATION FIELD TO RECONCILIATION SYSTEM

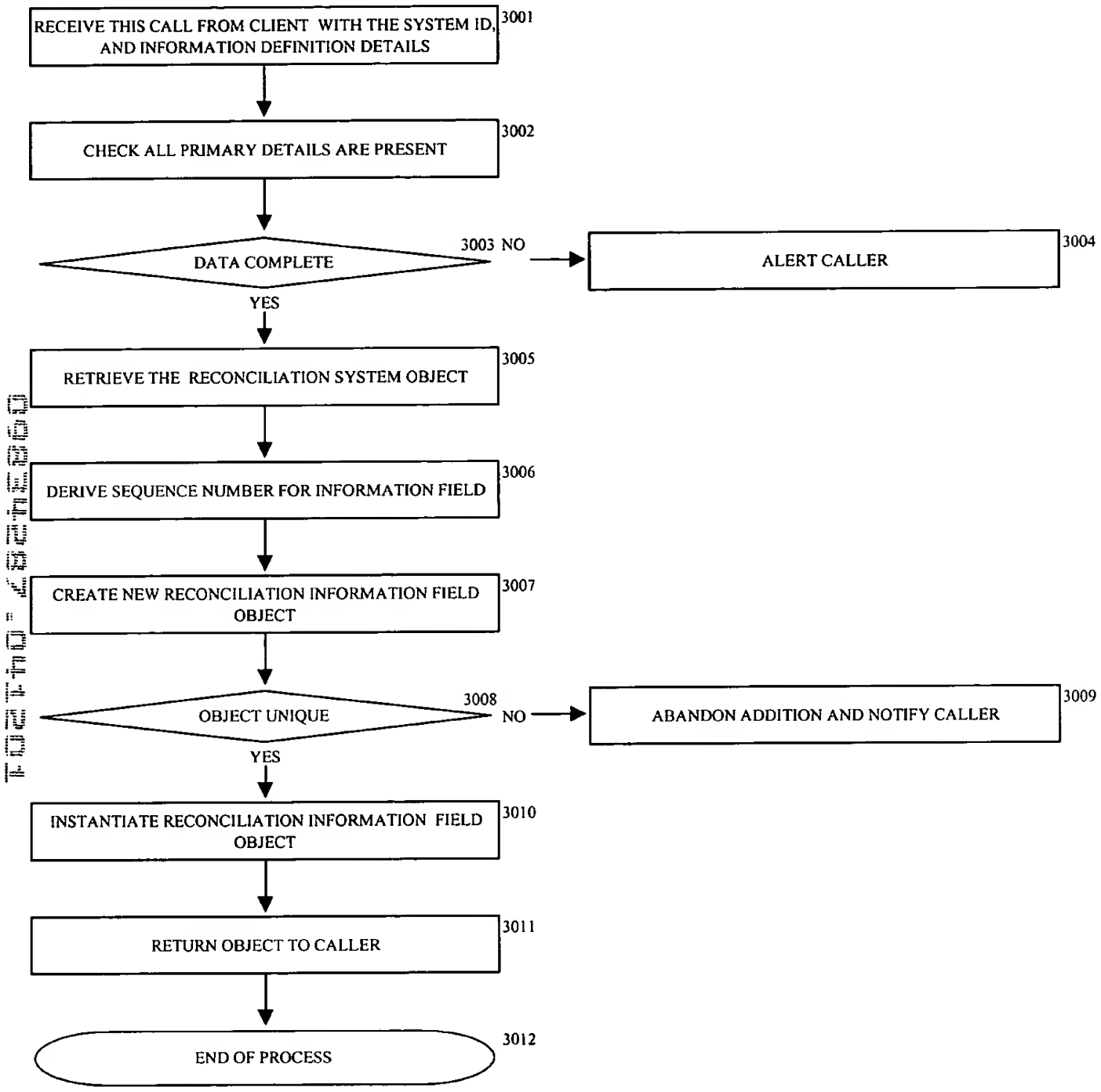

FIG. 30

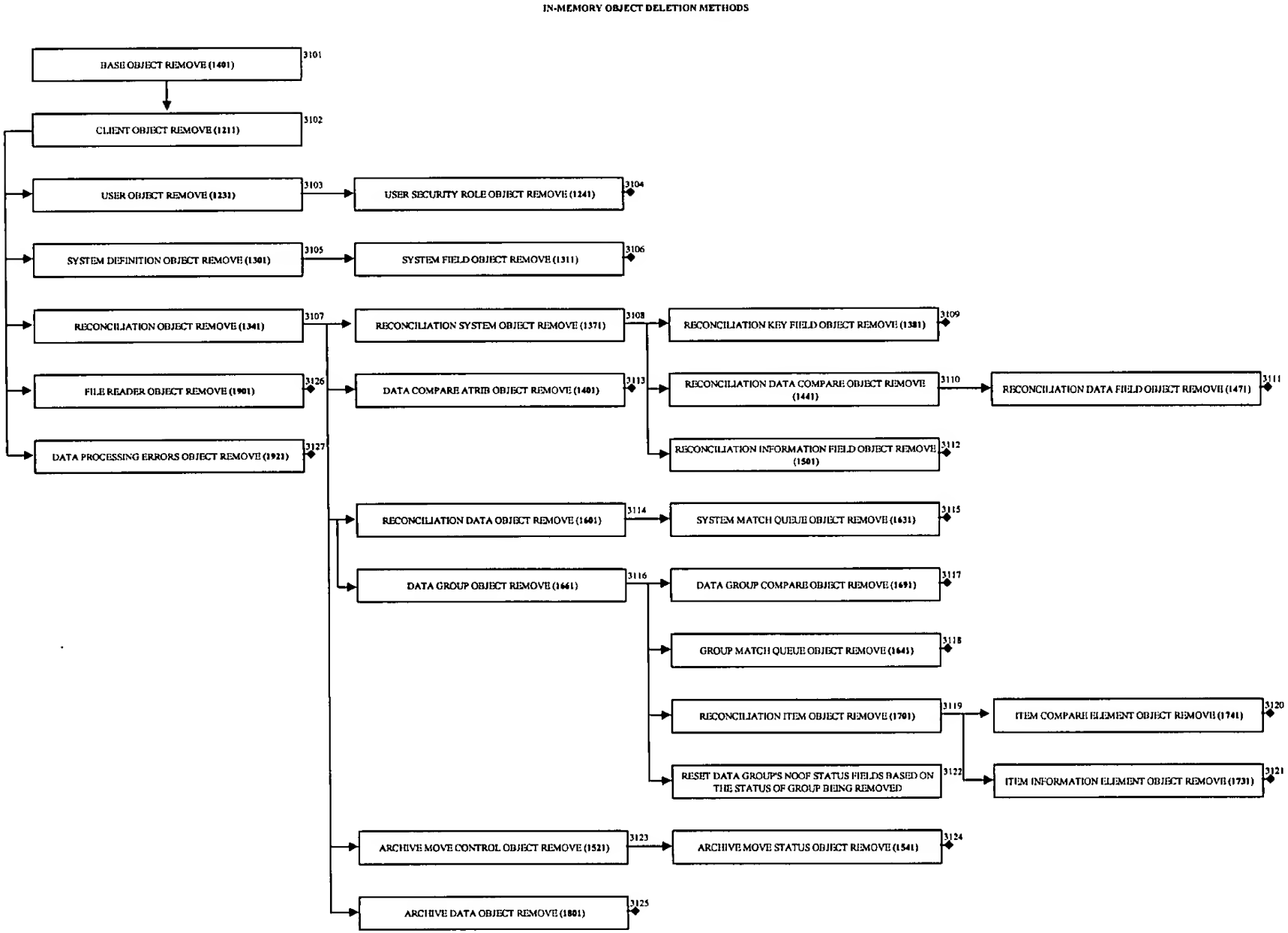
IN-MEMORY OBJECT DELETION METHODS
BASE OBJECT REMOVE (1401)
3101
CLIENT OBJECT REMOVE (1211)
3102
USER OBJECT REMOVE (1231)
3103
USER SECURITY ROLE OBJECT REMOVE (1241)
3104
SYSTEM DEFINITION OBJECT REMOVE (1301)
3105
SYSTEM FIELD OBJECT REMOVE (1311)
3106
RECONCILIATION OBJECT REMOVE (1341)
3107
RECONCILIATION SYSTEM OBJECT REMOVE (1371)
3108
RECONCILIATION KEY FIELD OBJECT REMOVE (1381)
3109
FILE READER OBJECT REMOVE (1901)
3126
DATA COMPARE ATRIB OBJECT REMOVE (1401)
3113
RECONCILIATION DATA COMPARE OBJECT REMOVE (1441)
3110
RECONCILIATION DATA FIELD OBJECT REMOVE (1471)
3111
DATA PROCESSING ERRORS OBJECT REMOVE (1921)
3127
RECONCILIATION INFORMATION FIELD OBJECT REMOVE (1501)
3112
RECONCILIATION DATA OBJECT REMOVE (1601)
3114
SYSTEM MATCH QUEUE OBJECT REMOVE (1631)
3115
DATA GROUP OBJECT REMOVE (1661)
3116
DATA GROUP COMPARE OBJECT REMOVE (1691)
3117
GROUP MATCH QUEUE OBJECT REMOVE (1641)
3118
RECONCILIATION ITEM OBJECT REMOVE (1701)
3119
ITEM COMPARE ELEMENT OBJECT REMOVE (1741)
3120
RESET DATA GROUP'S NOOF STATUS FIELDS BASED ON THE STATUS OF GROUP BEING REMOVED
3122
ITEM INFORMATION ELEMENT OBJECT REMOVE (1731)
3121
ARCHIVE MOVE CONTROL OBJECT REMOVE (1521)
3123
ARCHIVE MOVE STATUS OBJECT REMOVE (1541)
3124
ARCHIVE DATA OBJECT REMOVE (1801)
3125

FIG. 31

MESSAGE RELATED PROCESSES
PROCESS SINGE RECONCILIATION MESSAGE

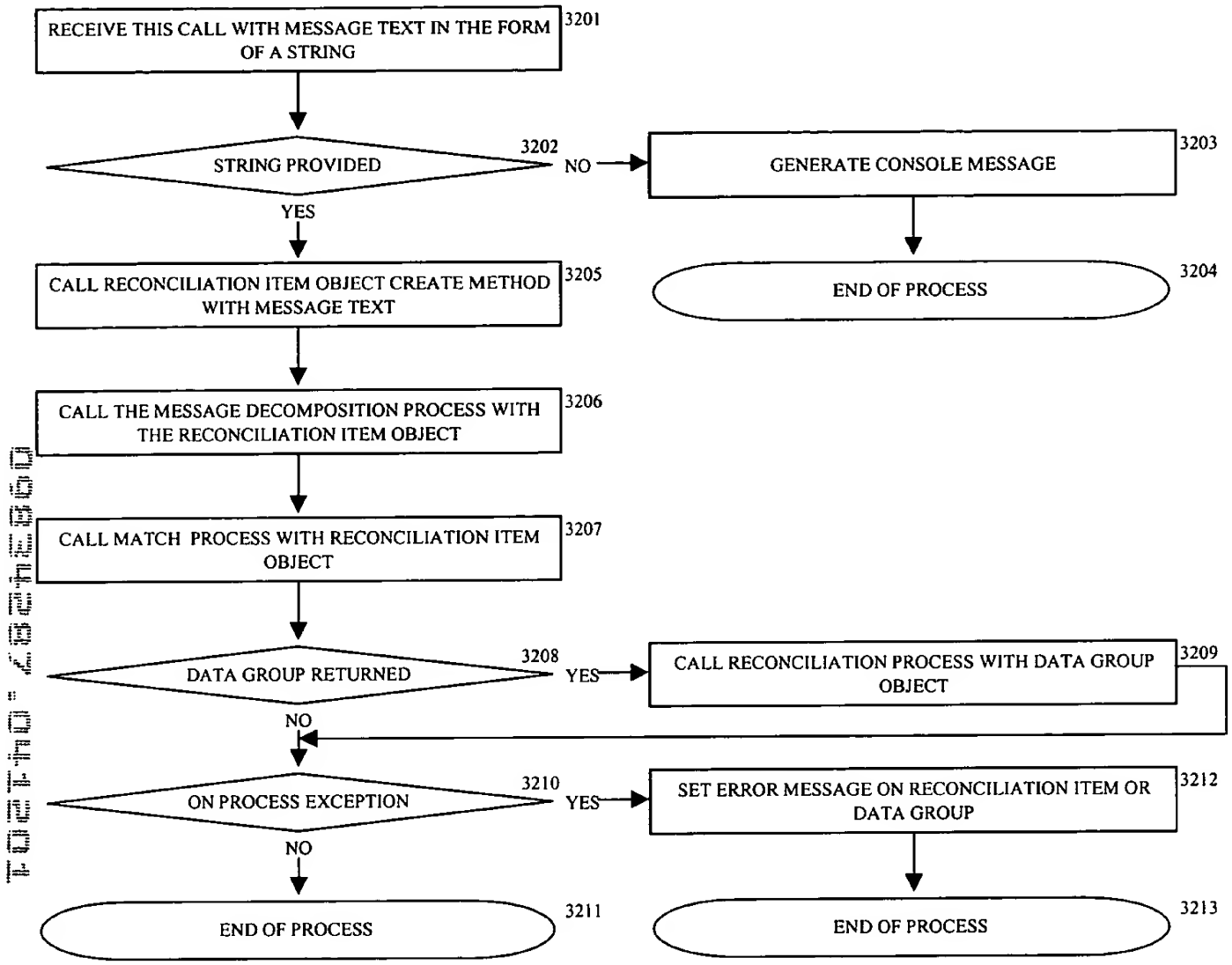

FIG. 32

MESSAGE RELATED PROCESSES
CREATE RECONCILIATION ITEM OBJECT

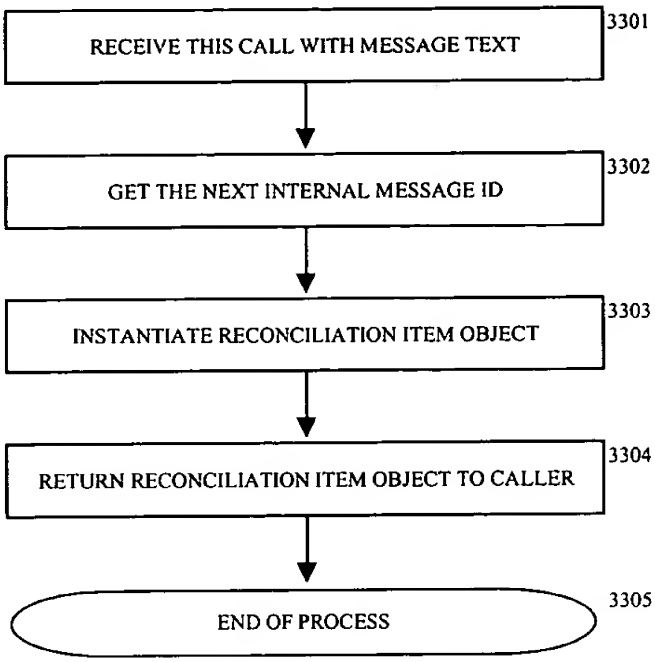

FIG. 33

MESSAGE RELATED PROCESSES
DECOMPOSE RECONCILIATION ITEM

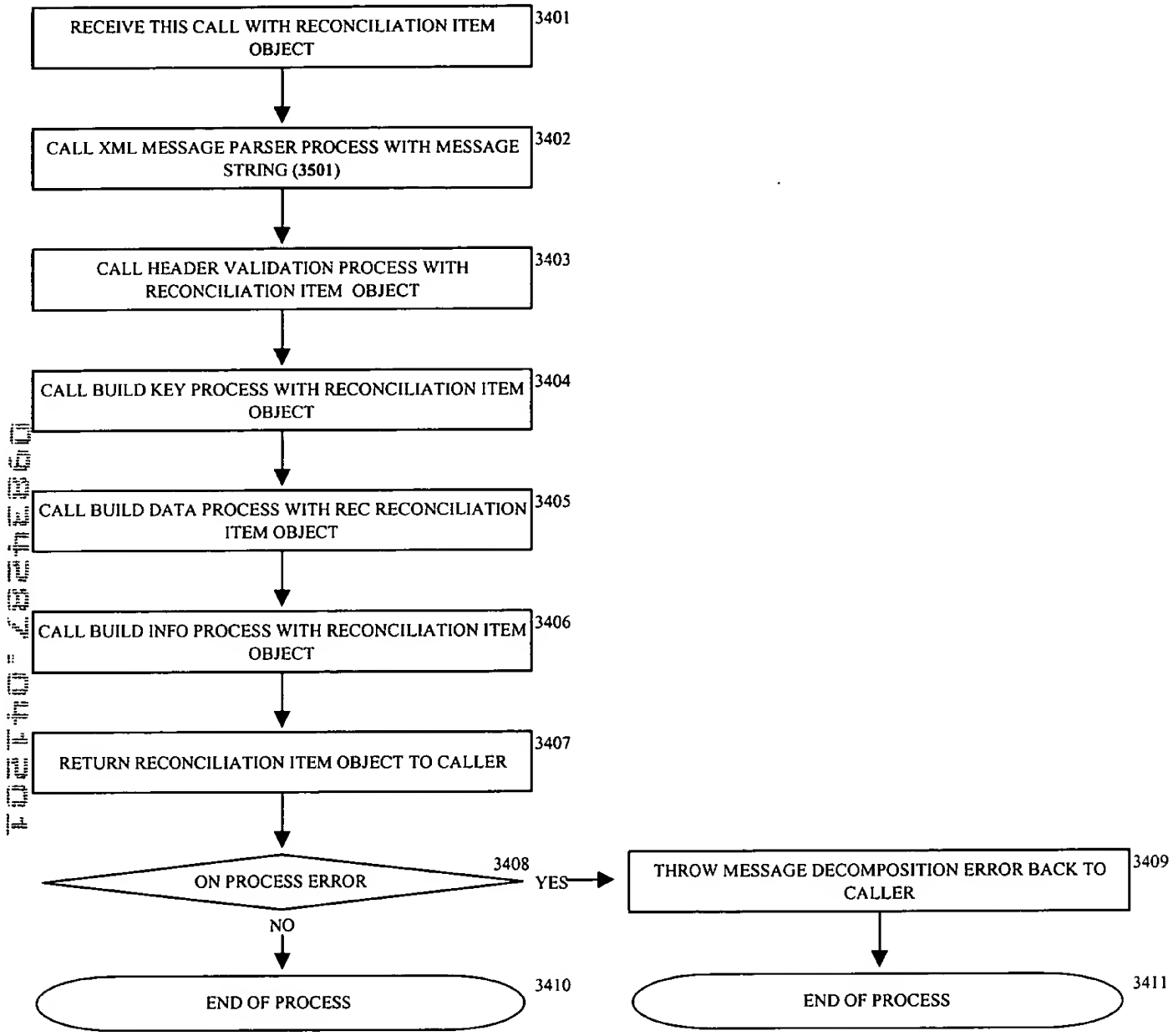

FIG. 34

MESSAGE RELATED PROCESSES
XML MESSAGE PARSER

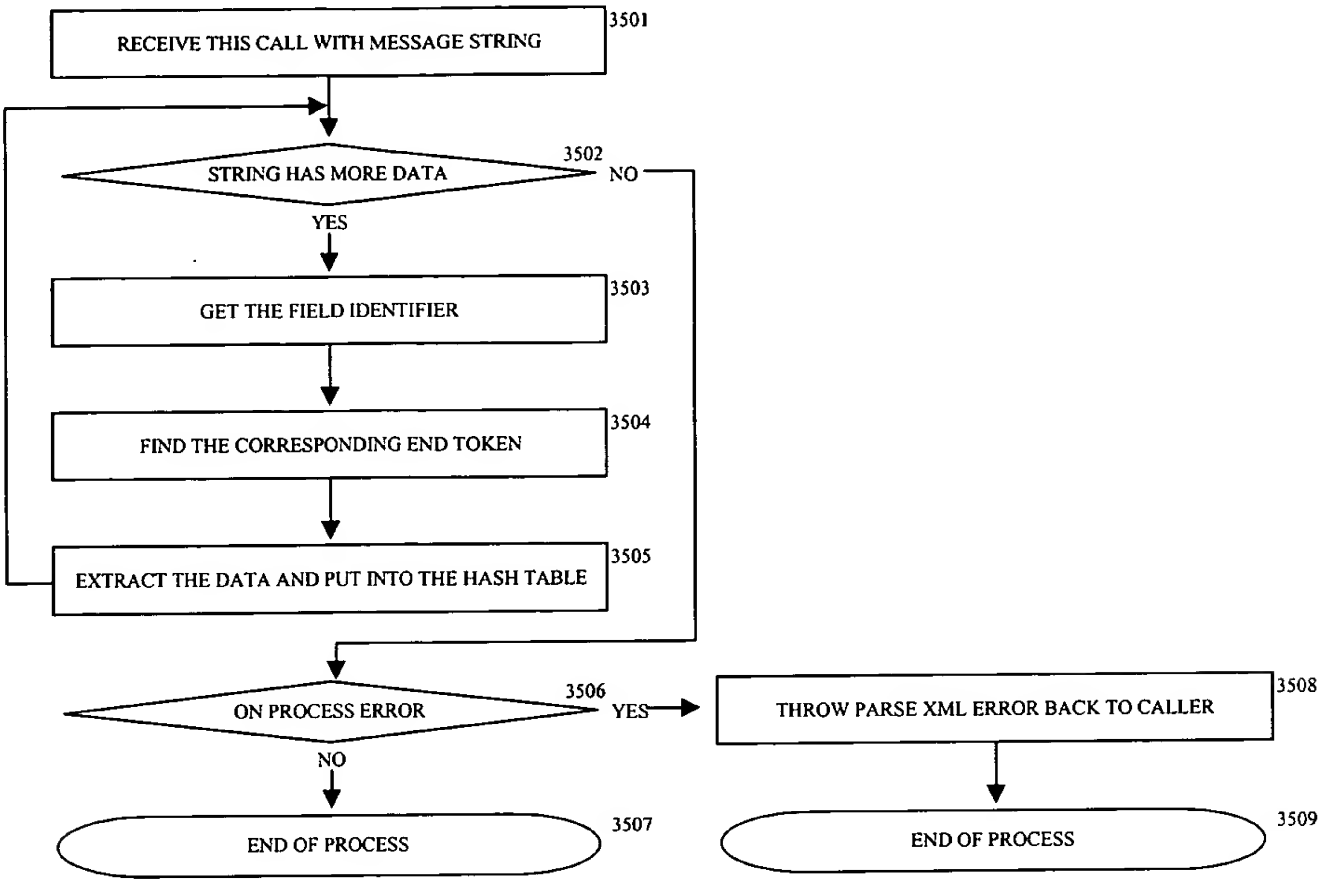

FIG. 35

MESSAGE RELATED PROCESSES
PROCESS HEADER DETAILS

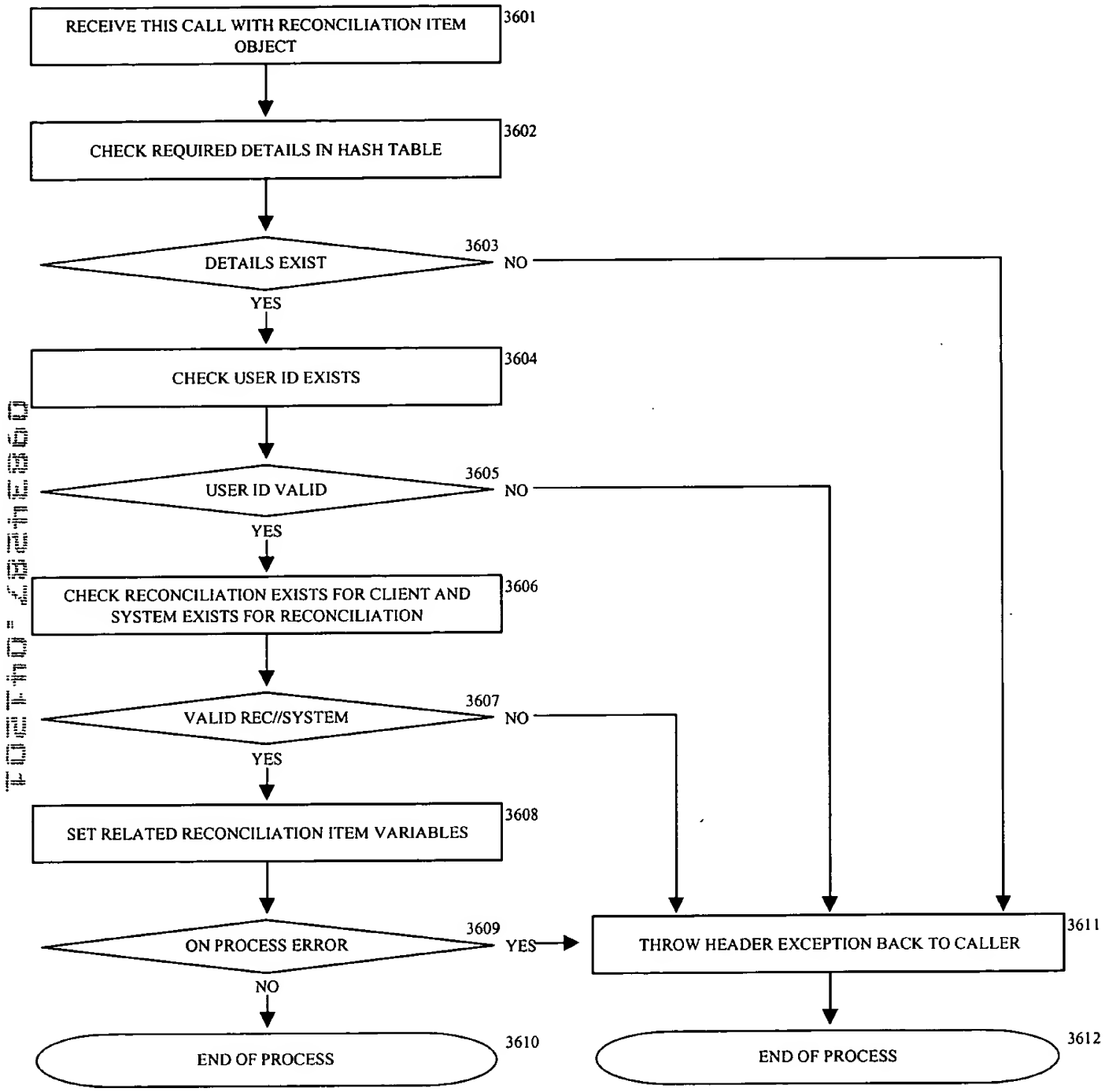

FIG. 36

MESSAGE RELATED PROCESSES
BUILD KEY

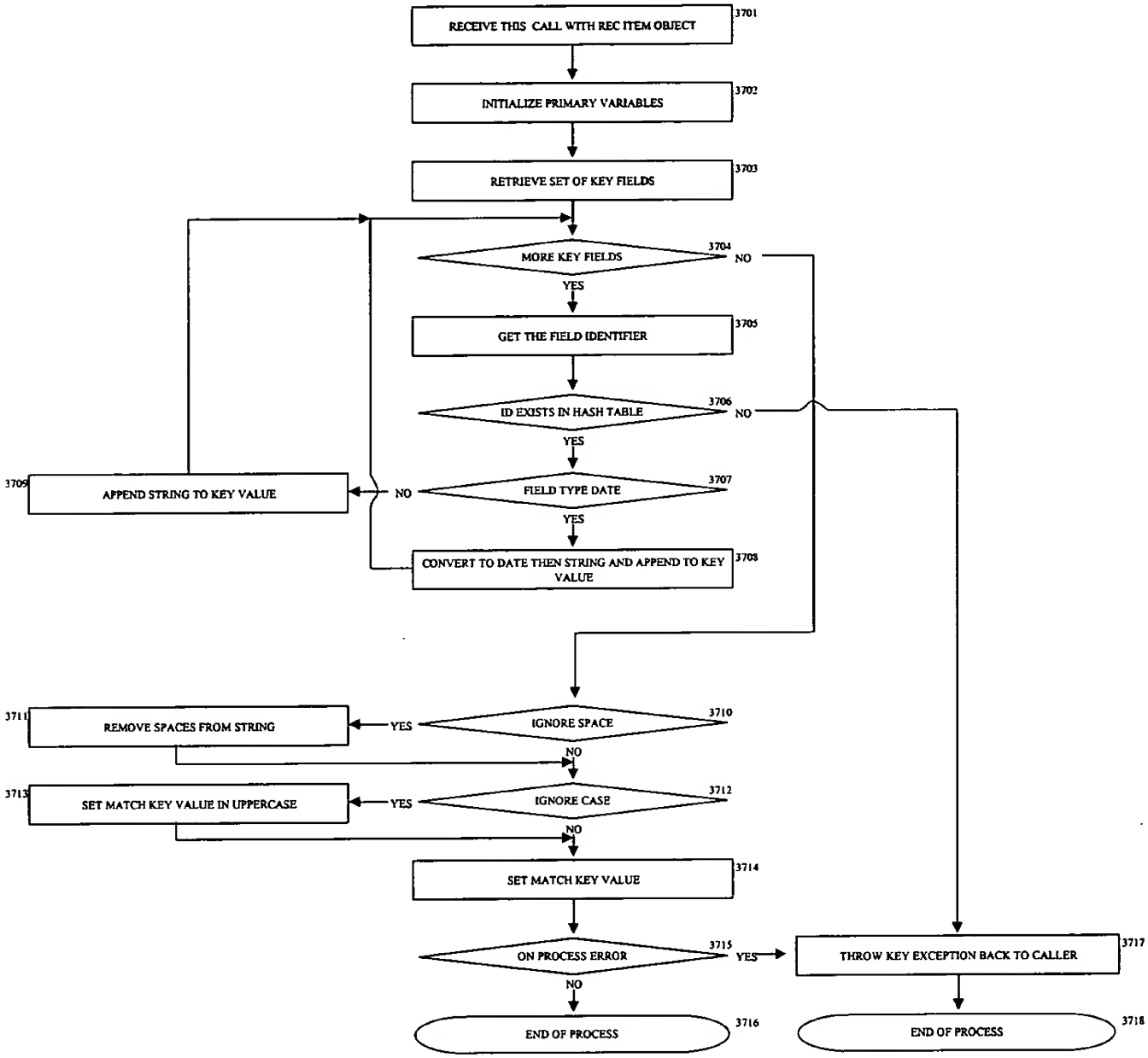

FIG. 37

MESSAGE RELATED PROCESSES
BUILD DATA

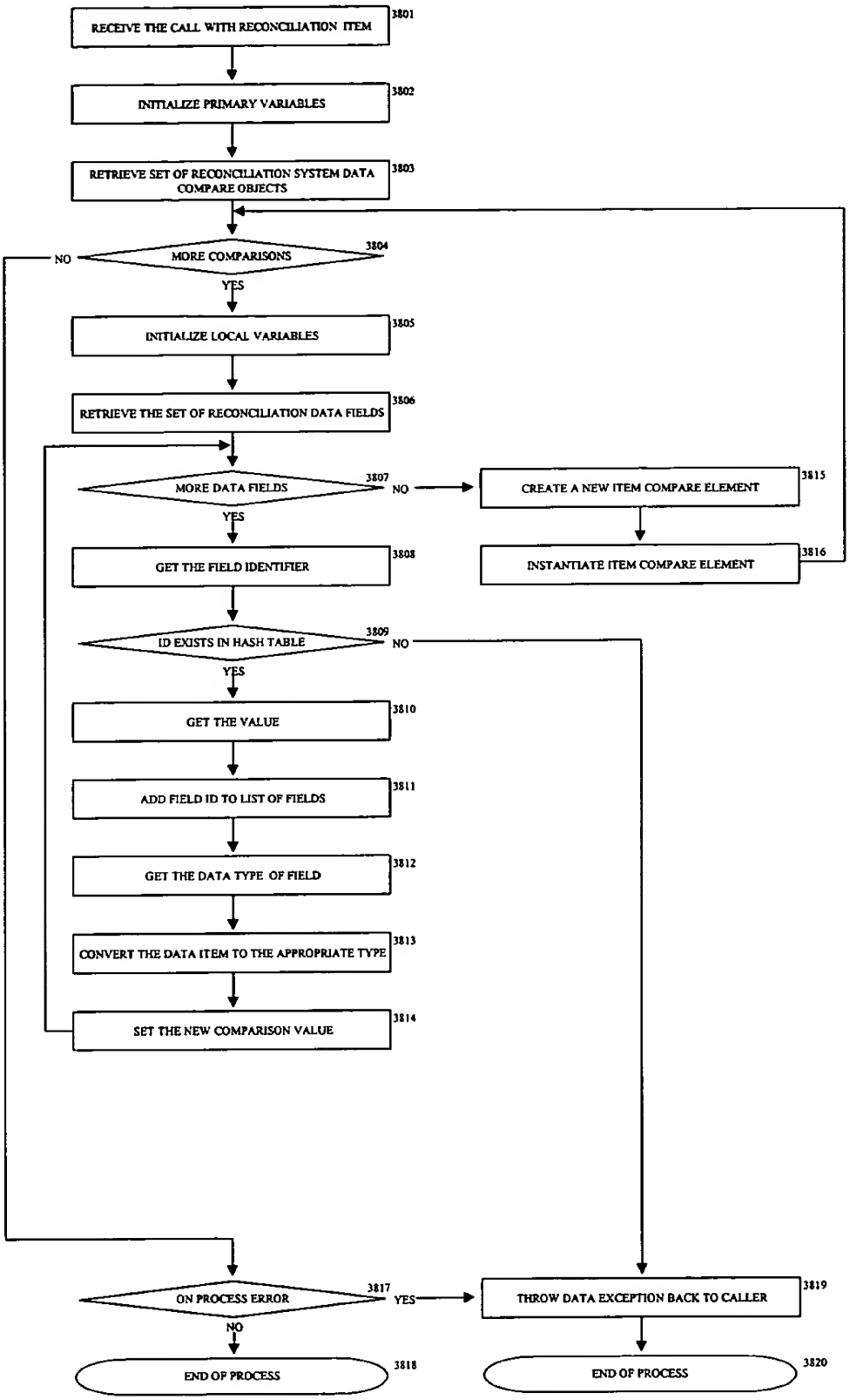

FIG. 38

MESSAGE RELATED PROCESSES
BUILD INFORMATION

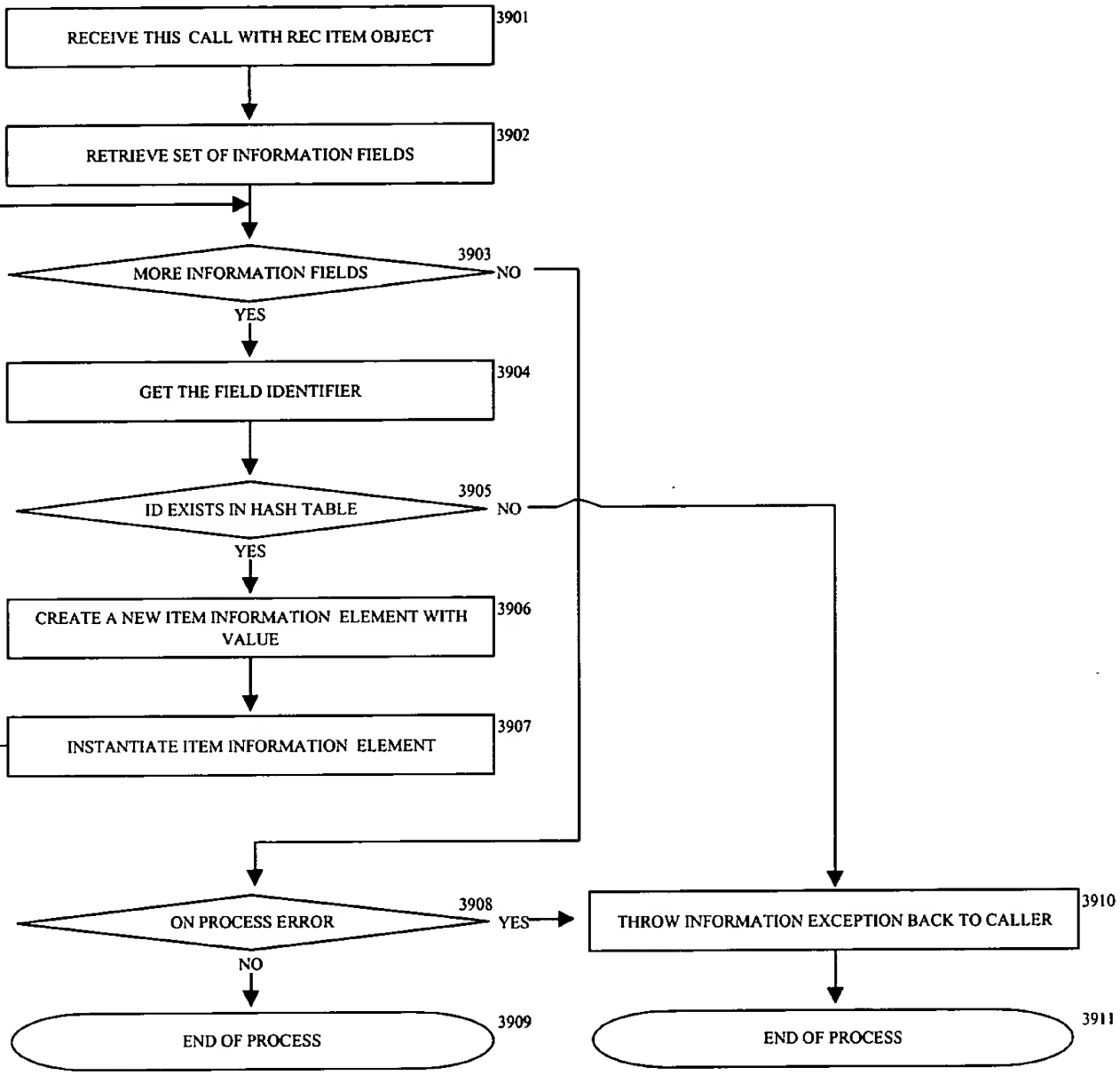

FIG. 39

MESSAGE RELATED PROCESSES
MATCH

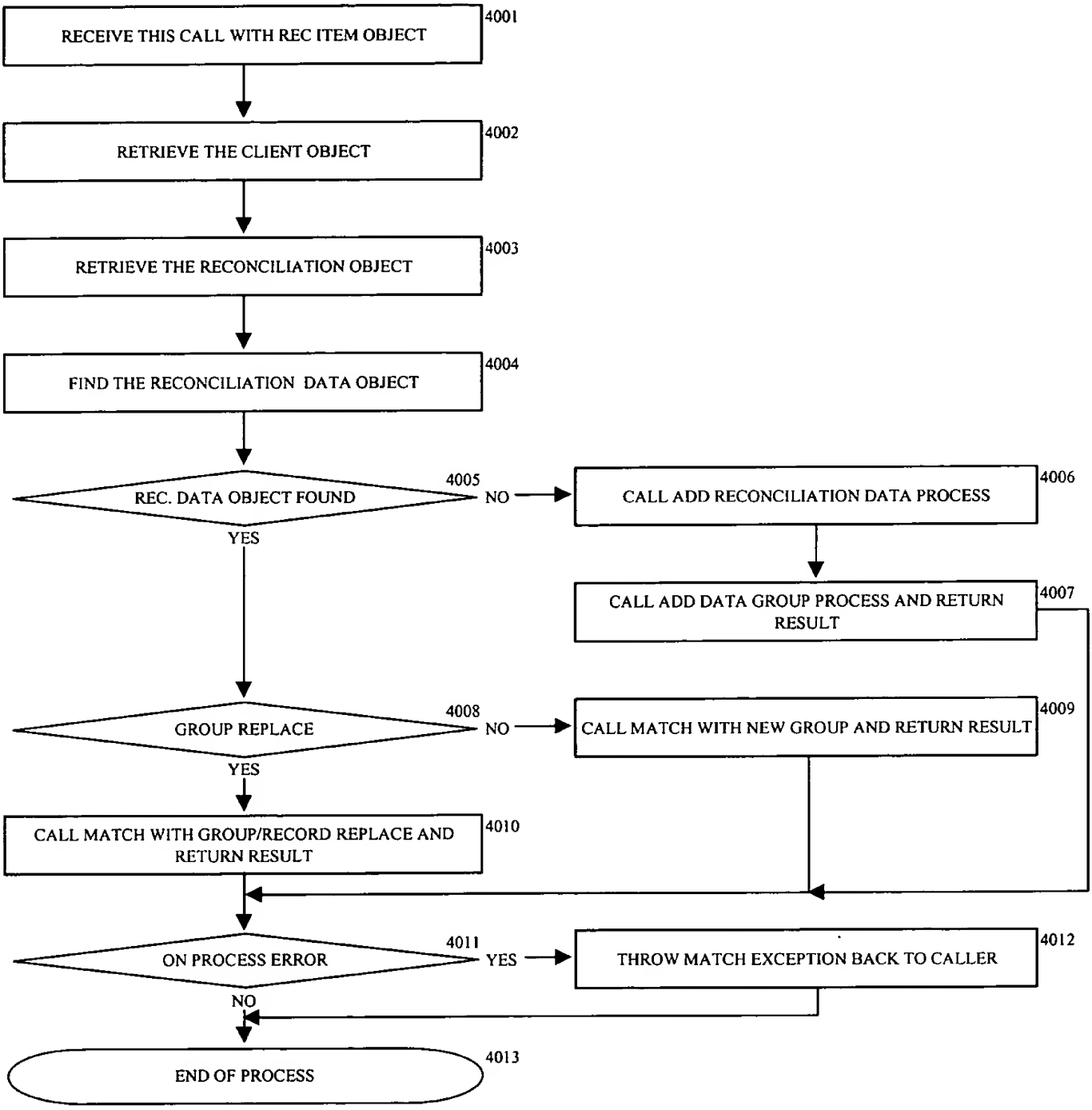

FIG. 40

MESSAGE RELATED PROCESSES
MATCH WITH GROUP/RECORD REPLACE

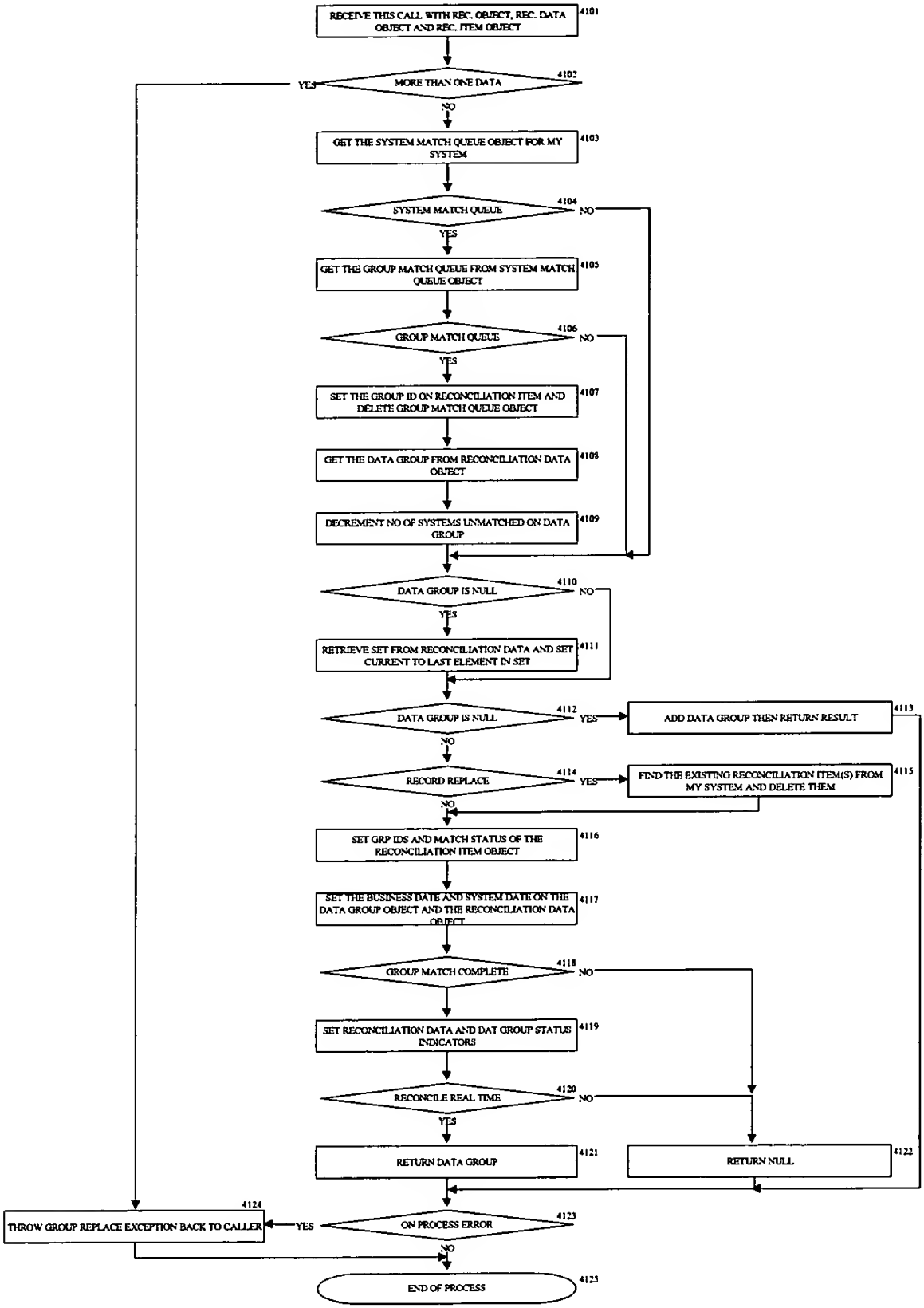

FIG. 41

MESSAGE RELATED PROCESSES
MATCH WITH NEW GROUP

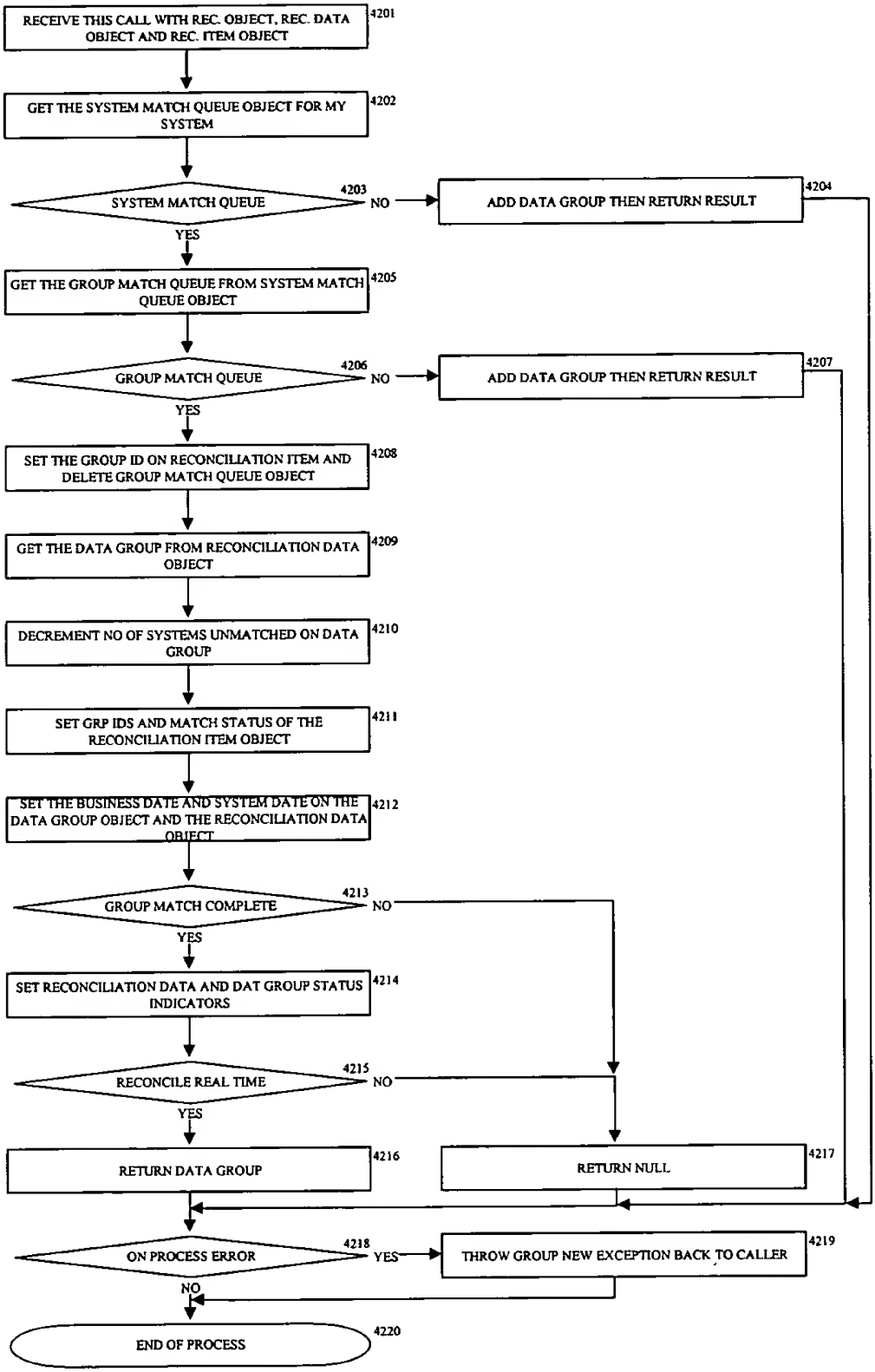

FIG. 42

MESSAGE RELATED PROCESSES
CREATE RECONCILIATION DATA OBJECT

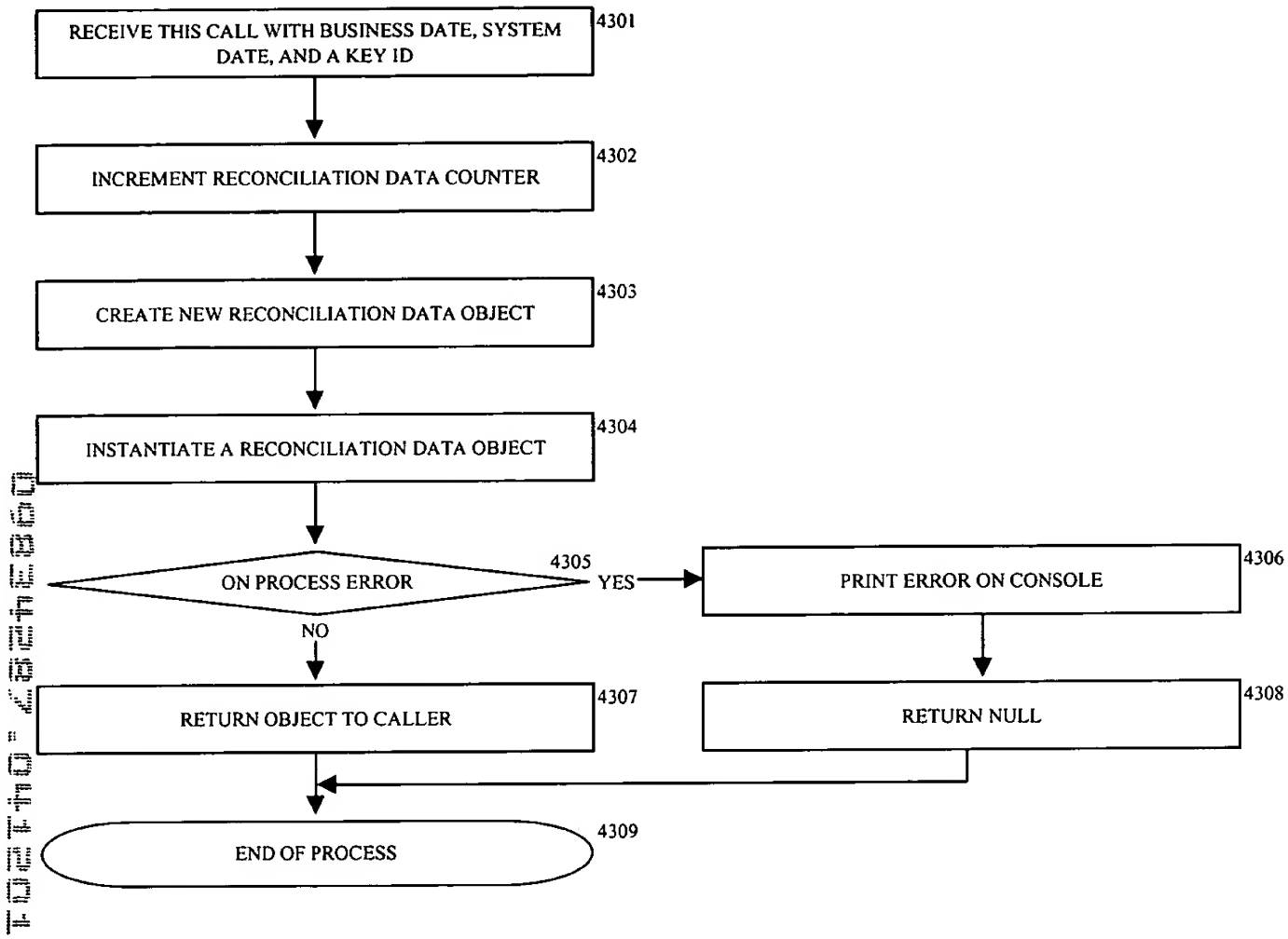

FIG. 43

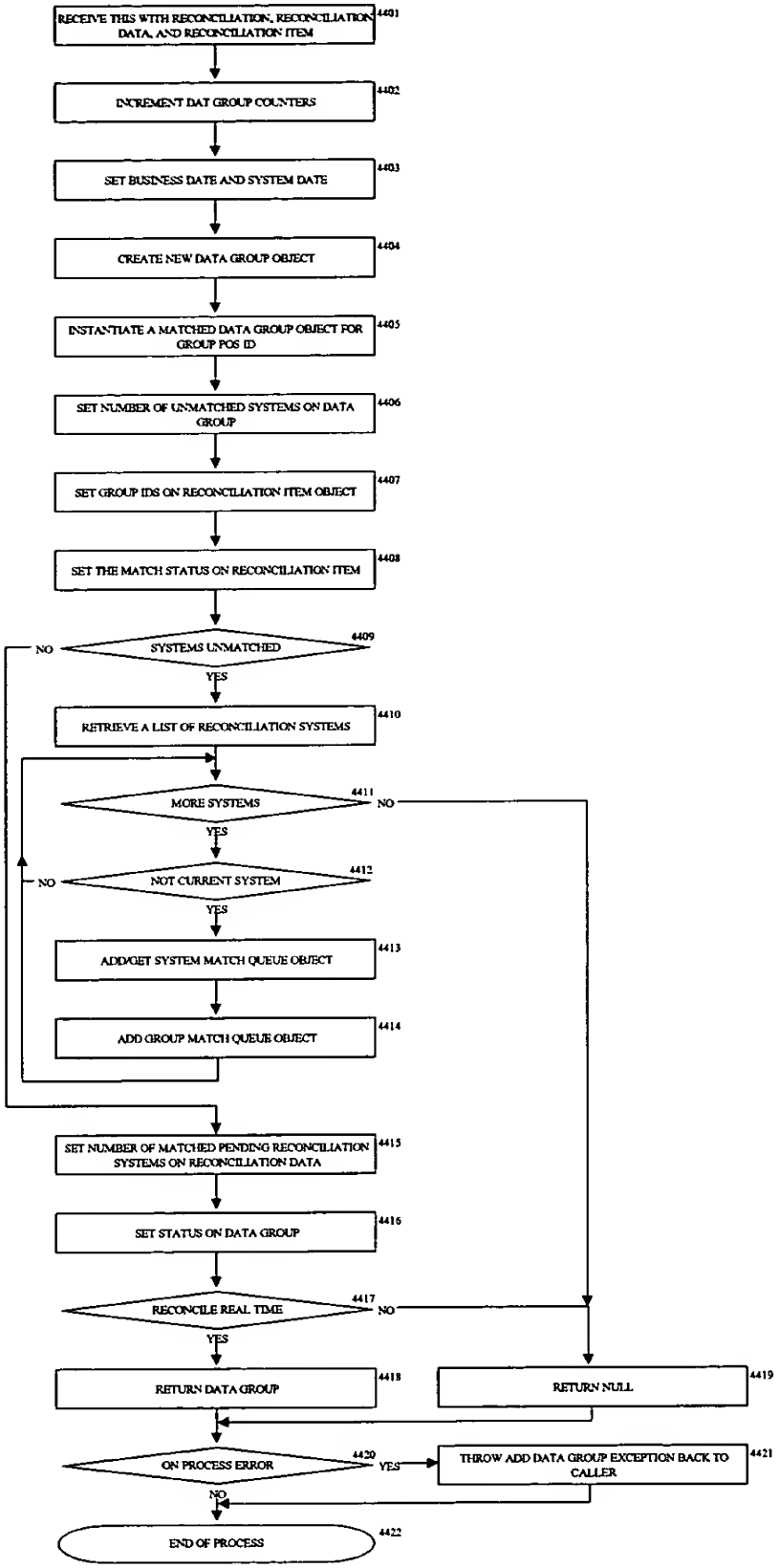
RECEIVE THIS WITH RECONCILIATION, RECONCILIATION DATA, AND RECONCILIATION ITEM
4401
INCREMENT DAT GROUP COUNTERS
4402
SET BUSINESS DATE AND SYSTEM DATE
4403
CREATE NEW DATA GROUP OBJECT
4404
INSTANTIATE A MATCHED DATA GROUP OBJECT FOR GROUP POS ID
4405
SET NUMBER OF UNMATCHED SYSTEMS ON DATA GROUP
4406
SET GROUP IDS ON RECONCILIATION ITEM OBJECT
4407
SET THE MATCH STATUS ON RECONCILIATION ITEM
4408
SYSTEMS UNMATCHED
4409
NO
YES
RETRIEVE A LIST OF RECONCILIATION SYSTEMS
4410
MORE SYSTEMS
4411
NO
YES
NOT CURRENT SYSTEM
4412
NO
YES
ADD/GET SYSTEM MATCH QUEUE OBJECT
4413
ADD GROUP MATCH QUEUE OBJECT
4414
SET NUMBER OF MATCHED PENDING RECONCILIATION SYSTEMS ON RECONCILIATION DATA
4415
SET STATUS ON DATA GROUP
4416
RECONCILE REAL TIME
4417
NO
YES
RETURN DATA GROUP
4418
RETURN NULL
4419
ON PROCESS ERROR
4420
YES
THROW ADD DATA GROUP EXCEPTION BACK TO CALLER
4421
NO
END OF PROCESS
4422

FIG. 44

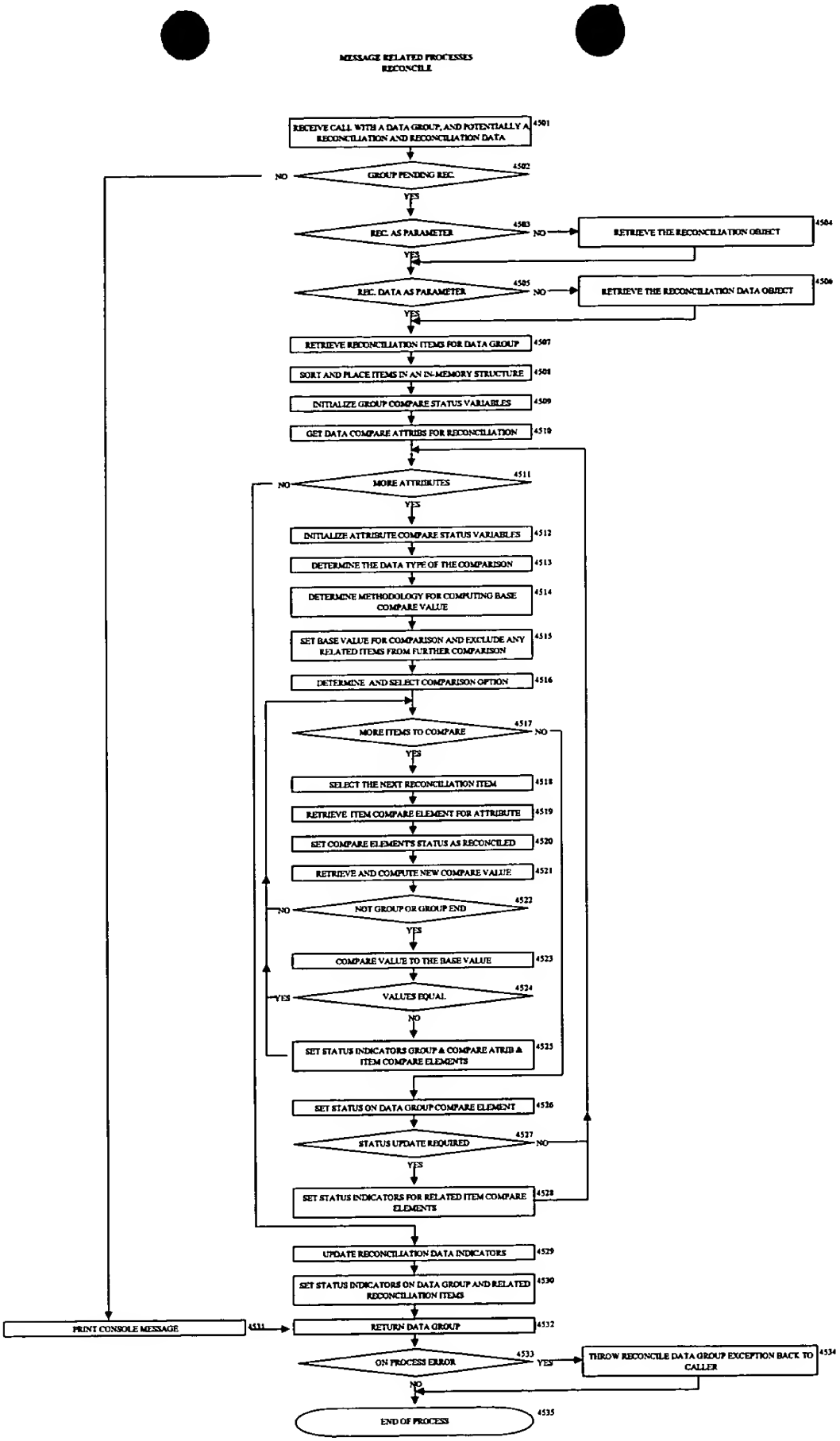
MESSAGE RELATED PROCESSES
RECONCILE
RECEIVE CALL WITH A DATA GROUP, AND POTENTIALLY A RECONCILIATION AND RECONCILIATION DATA
4501
GROUP PENDING REC
4502
NO
YES
REC. AS PARAMETER
4503
NO
RETRIEVE THE RECONCILIATION OBJECT
4504
YES
REC. DATA AS PARAMETER
4505
NO
RETRIEVE THE RECONCILIATION DATA OBJECT
4506
YES
RETRIEVE RECONCILIATION ITEMS FOR DATA GROUP
4507
SORT AND PLACE ITEMS IN AN IN-MEMORY STRUCTURE
4508
INITIALIZE GROUP COMPARE STATUS VARIABLES
4509
GET DATA COMPARE ATTRIBS FOR RECONCILIATION
4510
MORE ATTRIBUTES
4511
NO
YES
INITIALIZE ATTRIBUTE COMPARE STATUS VARIABLES
4512
DETERMINE THE DATA TYPE OF THE COMPARISON
4513
DETERMINE METHODOLOGY FOR COMPUTING BASE COMPARE VALUE
4514
SET BASE VALUE FOR COMPARISON AND EXCLUDE ANY RELATED ITEMS FROM FURTHER COMPARISON
4515
DETERMINE AND SELECT COMPARISON OPTION
4516
MORE ITEMS TO COMPARE
4517
NO
YES
SELECT THE NEXT RECONCILIATION ITEM
4518
RETRIEVE ITEM COMPARE ELEMENT FOR ATTRIBUTE
4519
SET COMPARE ELEMENTS STATUS AS RECONCILED
4520
RETRIEVE AND COMPUTE NEW COMPARE VALUE
4521
NOT GROUP OR GROUP END
4522
NO
YES
COMPARE VALUE TO THE BASE VALUE
4523
VALUES EQUAL
4524
YES
NO
SET STATUS INDICATORS GROUP & COMPARE ATRIB & ITEM COMPARE ELEMENTS
4525
SET STATUS ON DATA GROUP COMPARE ELEMENT
4526
STATUS UPDATE REQUIRED
4527
NO
YES
SET STATUS INDICATORS FOR RELATED ITEM COMPARE ELEMENTS
4528
UPDATE RECONCILIATION DATA INDICATORS
4529
SET STATUS INDICATORS ON DATA GROUP AND RELATED RECONCILIATION ITEMS
4530
PRINT CONSOLE MESSAGE
4531
RETURN DATA GROUP
4532
ON PROCESS ERROR
4533
YES
THROW RECONCILE DATA GROUP EXCEPTION BACK TO CALLER
4534
NO
END OF PROCESS
4535

FIG. 45

DATA INTEGRATION PROCESSES
DIRECT MESSAGE BASED DATA INTEGRATION

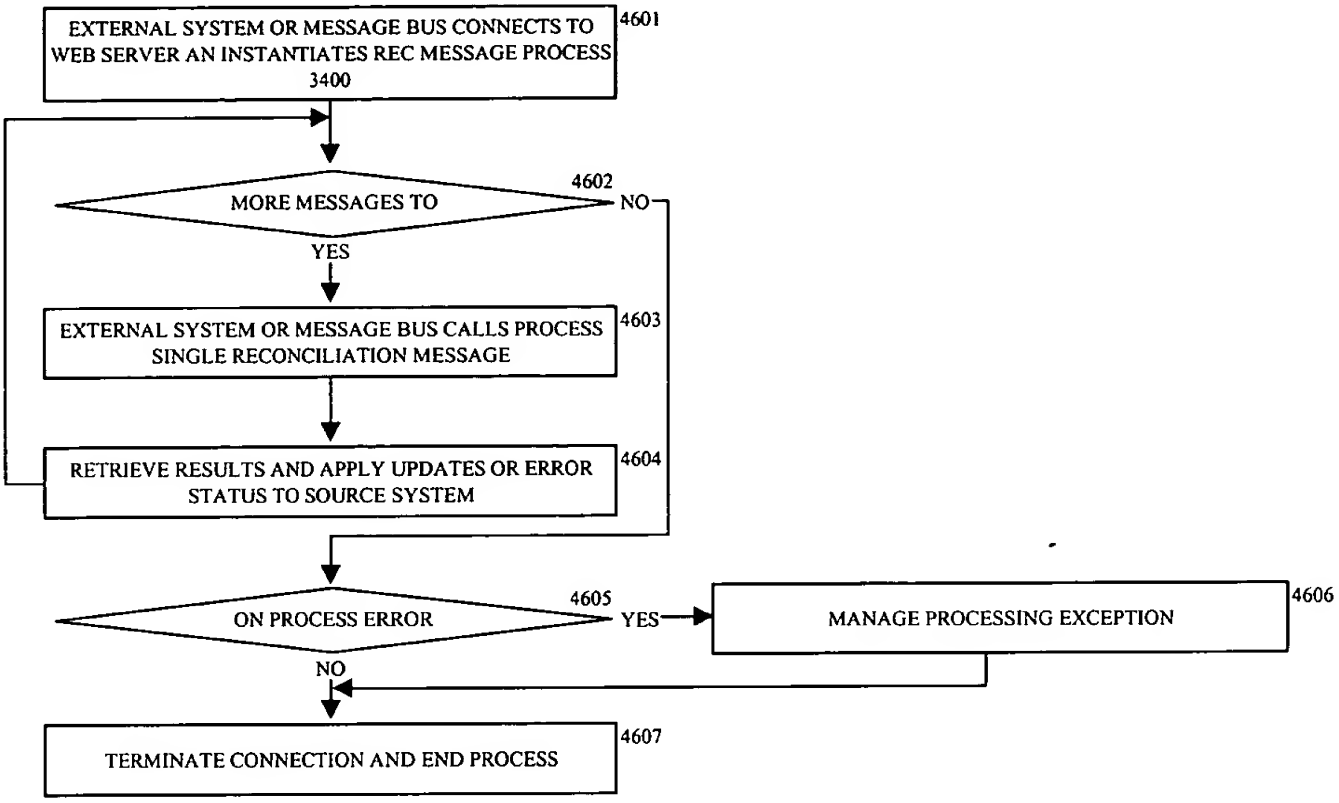

FIG. 46

Patent Application Publication

DATA INTEGRATION PROCESSES
DIRECT DATA SOURCE LINK BASED DATA INTEGRATION

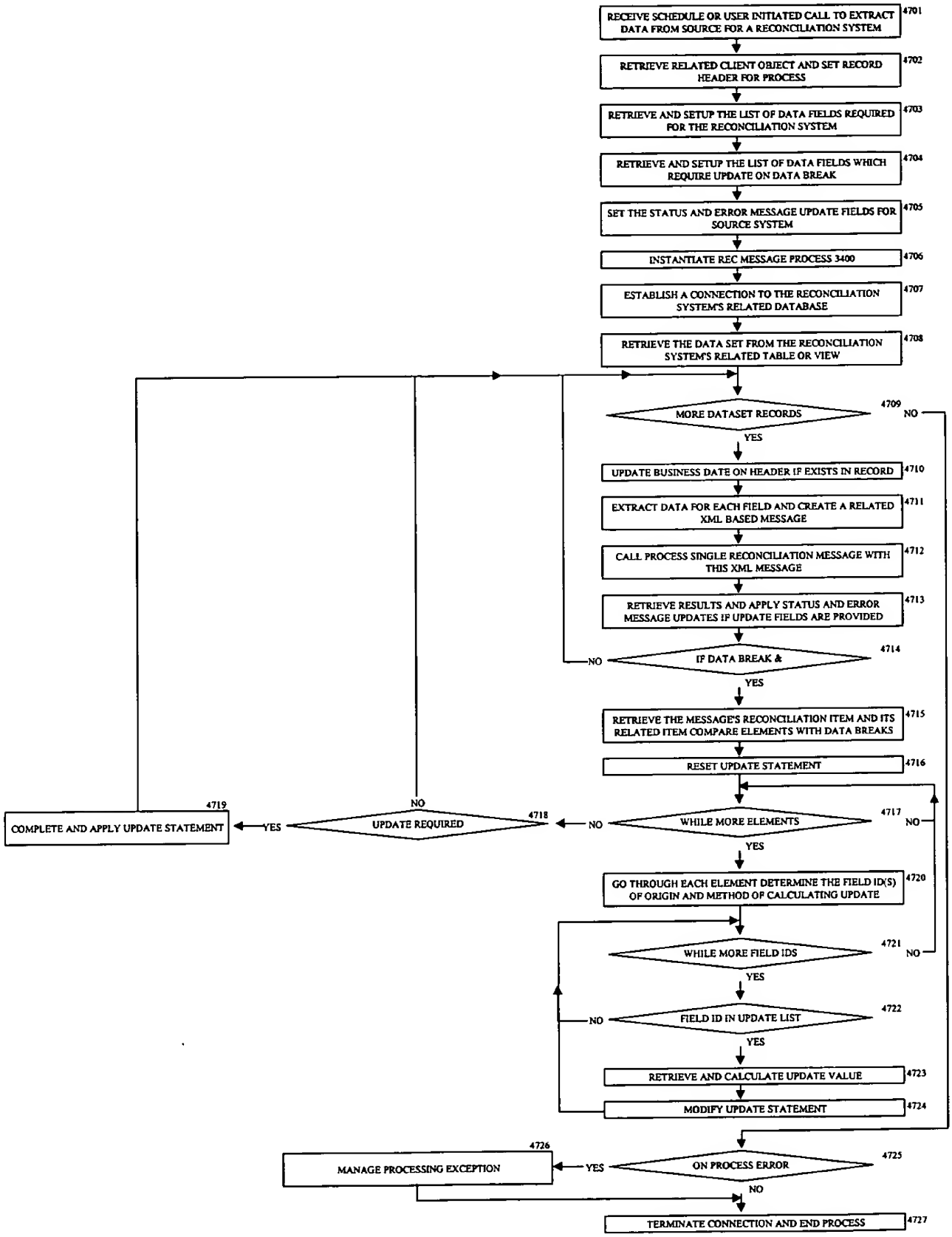

FIG. 47

DATA INTEGRATION PROCESSES
FILE BASED DATA INTEGRATION

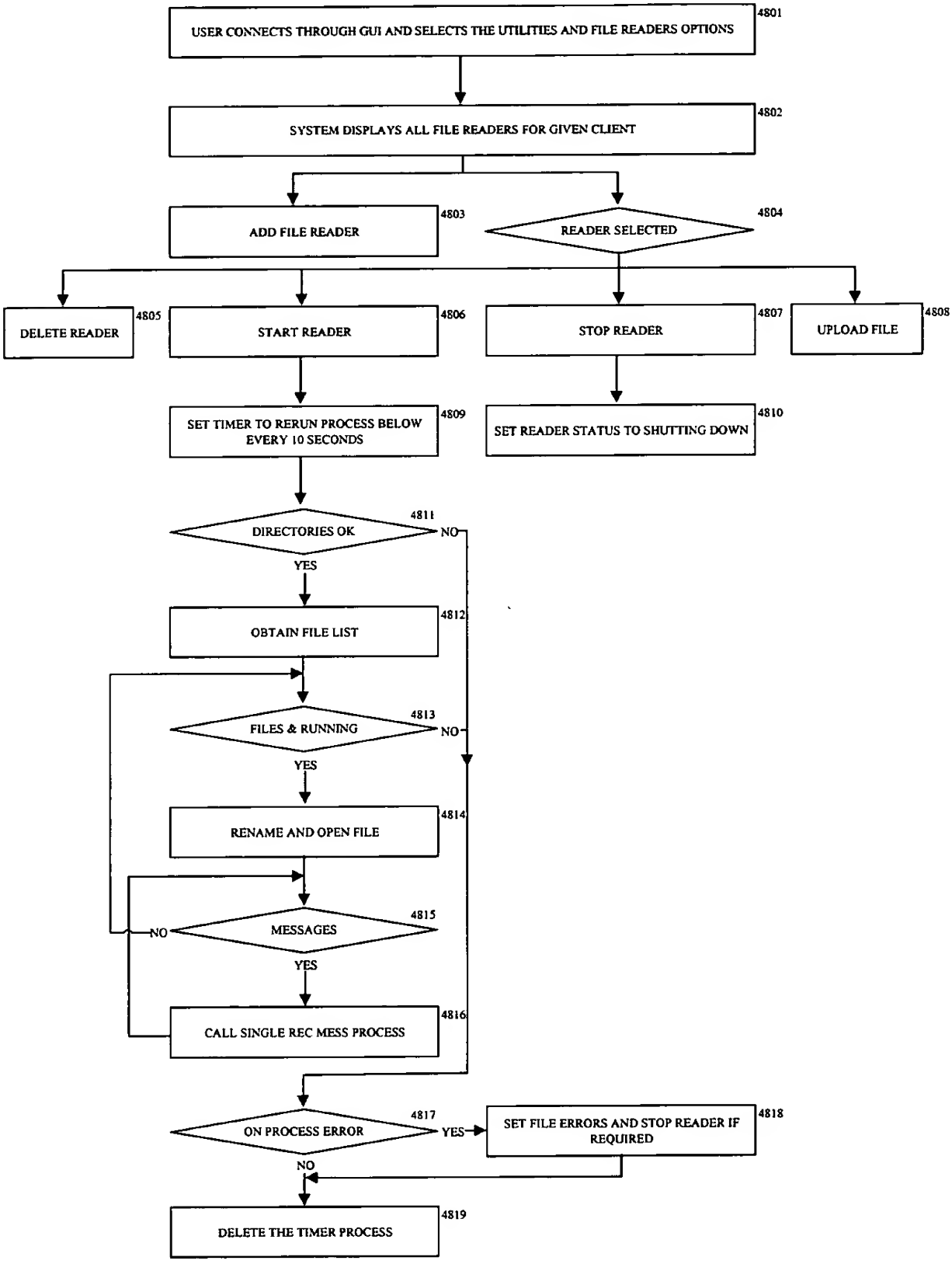

FIG. 48

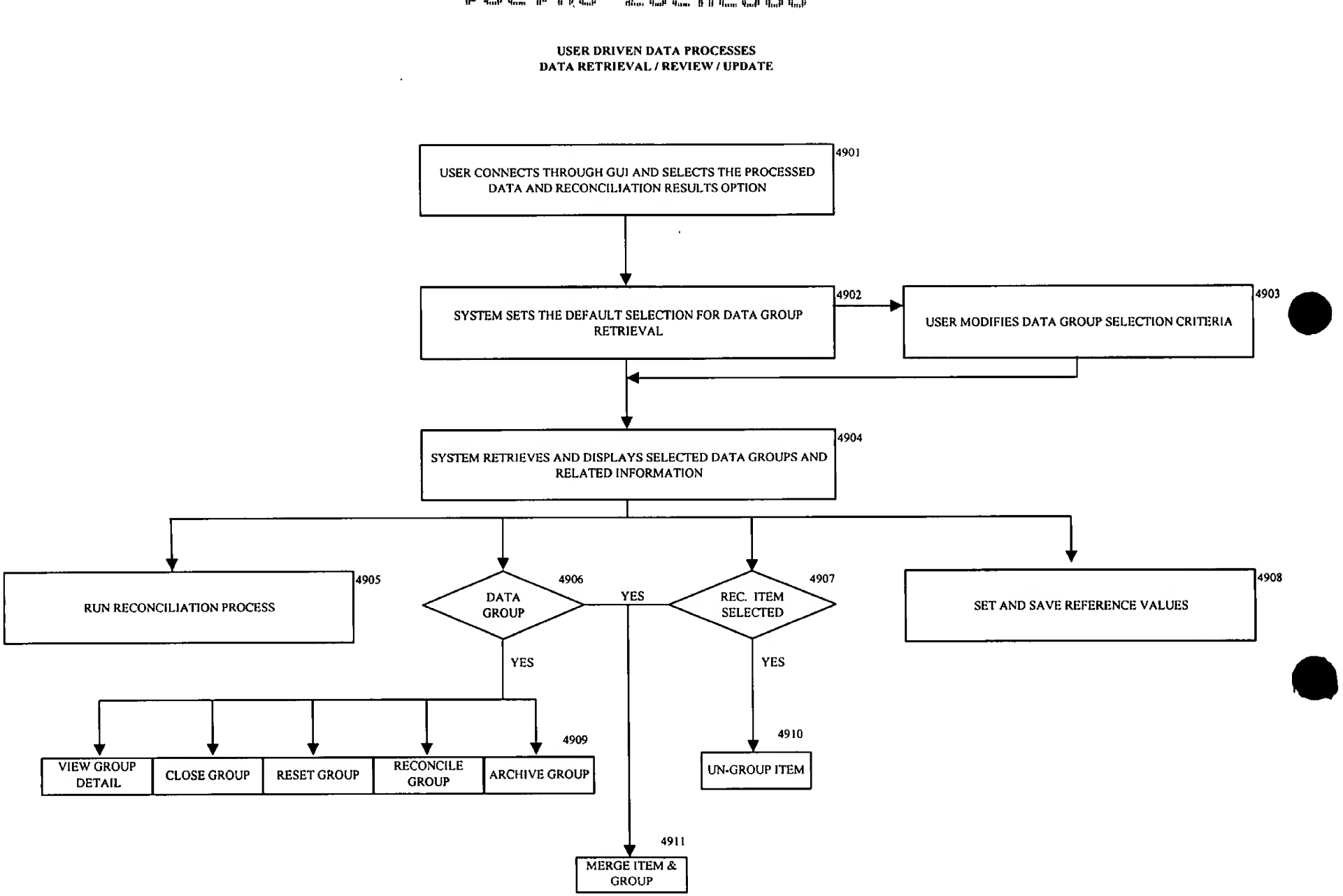
USER DRIVEN DATA PROCESSES
DATA RETRIEVAL / REVIEW / UPDATE
USER CONNECTS THROUGH GUI AND SELECTS THE PROCESSED DATA AND RECONCILIATION RESULTS OPTION
4901
SYSTEM SETS THE DEFAULT SELECTION FOR DATA GROUP RETRIEVAL
4902
USER MODIFIES DATA GROUP SELECTION CRITERIA
4903
SYSTEM RETRIEVES AND DISPLAYS SELECTED DATA GROUPS AND RELATED INFORMATION
4904
RUN RECONCILIATION PROCESS
4905
DATA GROUP
4906
YES
REC. ITEM SELECTED
4907
SET AND SAVE REFERENCE VALUES
4908
YES
YES
VIEW GROUP DETAIL
CLOSE GROUP
RESET GROUP
RECONCILE GROUP
ARCHIVE GROUP
4909
UN-GROUP ITEM
4910
MERGE ITEM & GROUP
4911

FIG. 49

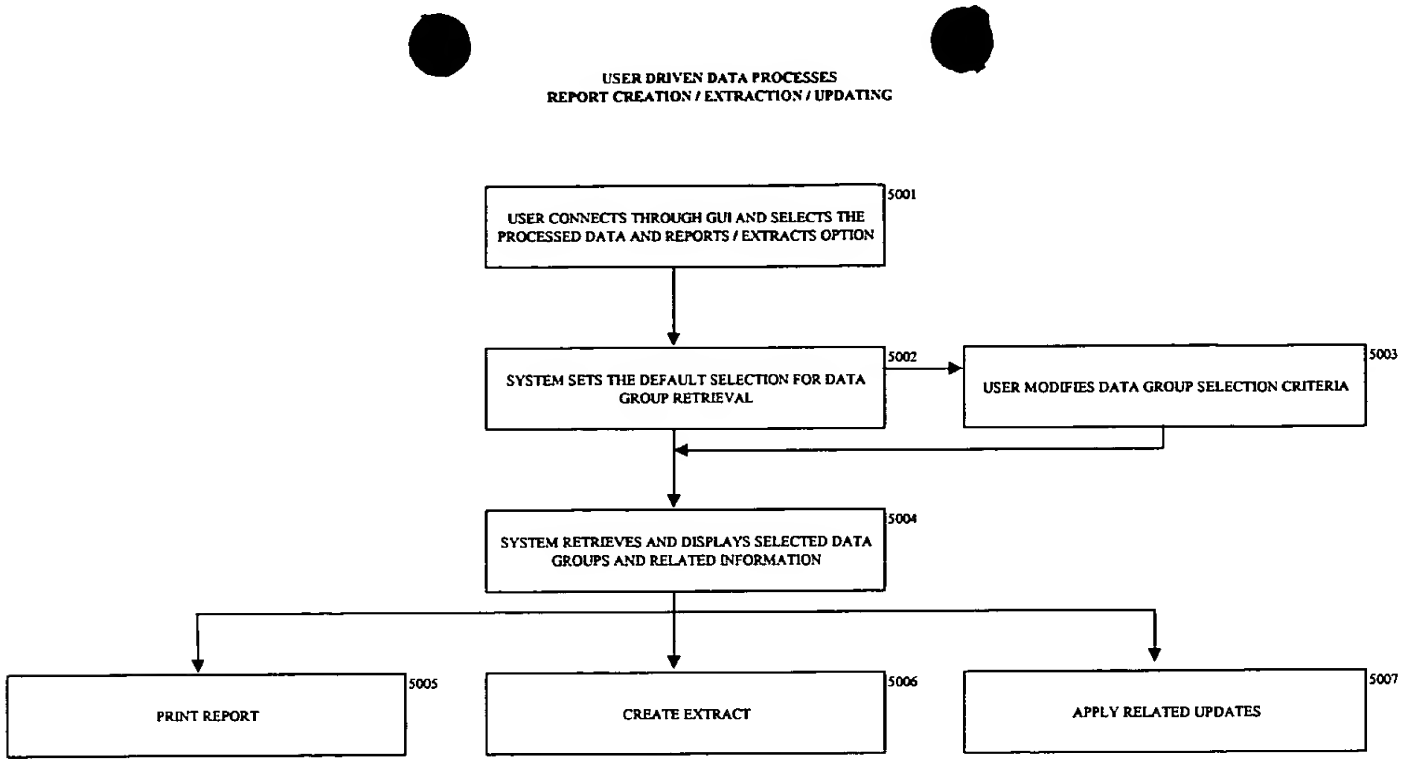
USER DRIVEN DATA PROCESSES
REPORT CREATION / EXTRACTION / UPDATING
USER CONNECTS THROUGH GUI AND SELECTS THE PROCESSED DATA AND REPORTS / EXTRACTS OPTION
5001
SYSTEM SETS THE DEFAULT SELECTION FOR DATA GROUP RETRIEVAL
5002
USER MODIFIES DATA GROUP SELECTION CRITERIA
5003
SYSTEM RETRIEVES AND DISPLAYS SELECTED DATA GROUPS AND RELATED INFORMATION
5004
PRINT REPORT
5005
CREATE EXTRACT
5006
APPLY RELATED UPDATES
5007

FIG. 50

USER DRIVEN DATA PROCESSES
CLIENT DETAIL MODIFICATION

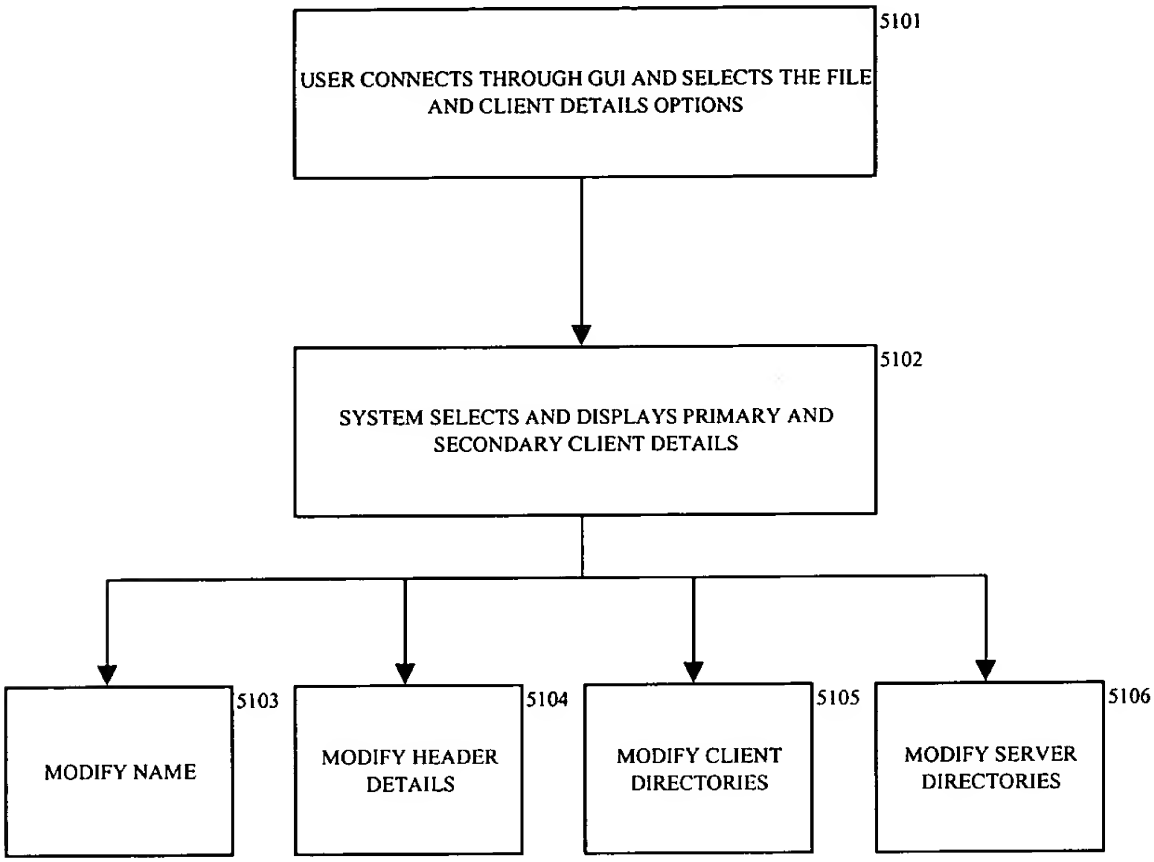

FIG. 51

Document ID: US 6,826,564 B2

USER DRIVEN DATA PROCESSES
USER ADD / DELETE / DETAIL MODIFICATION

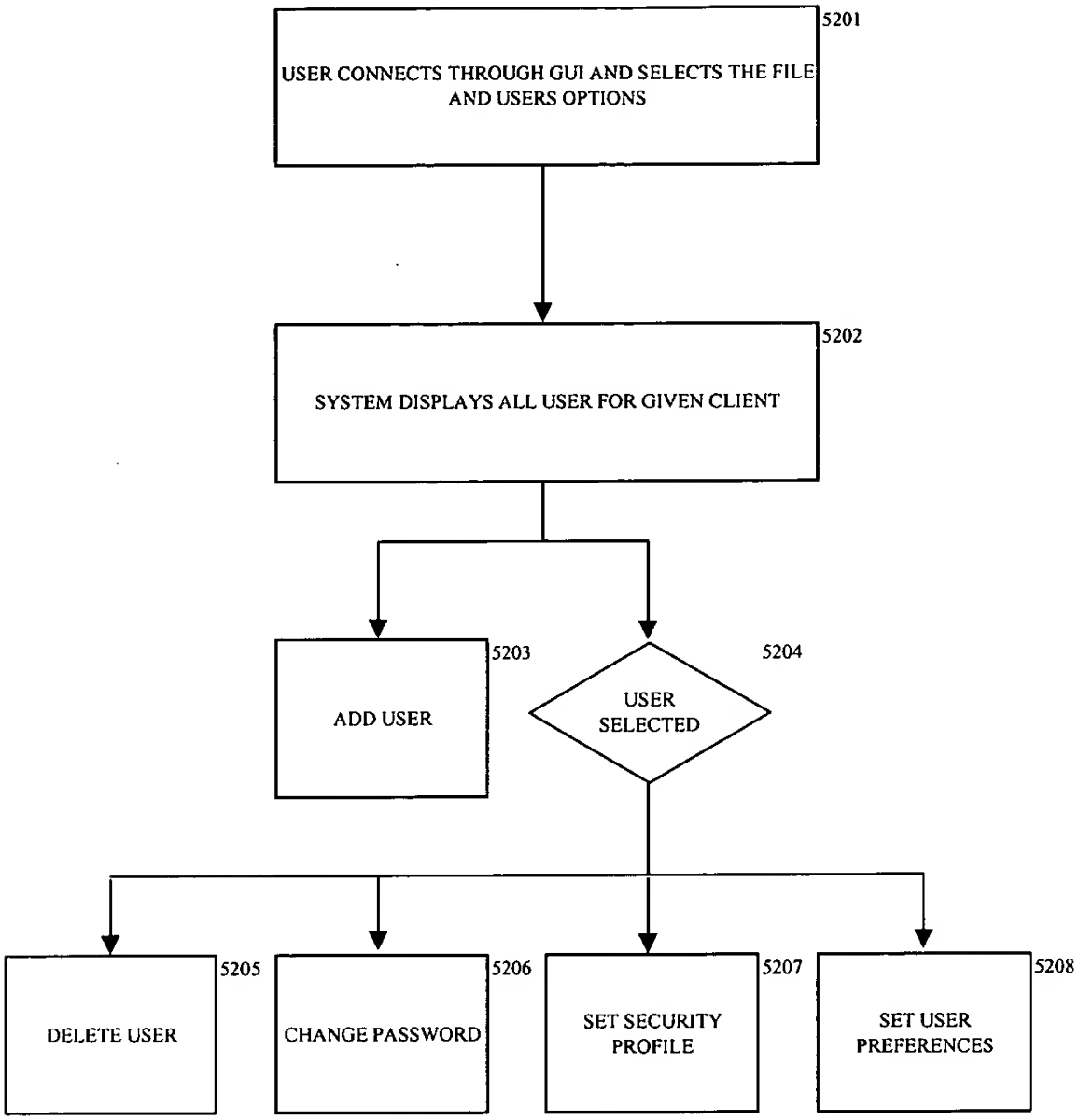

FIG. 52

ARCHIVE RELATED PROCESSES
MOVE DATA GROUP TO ARCHIVE

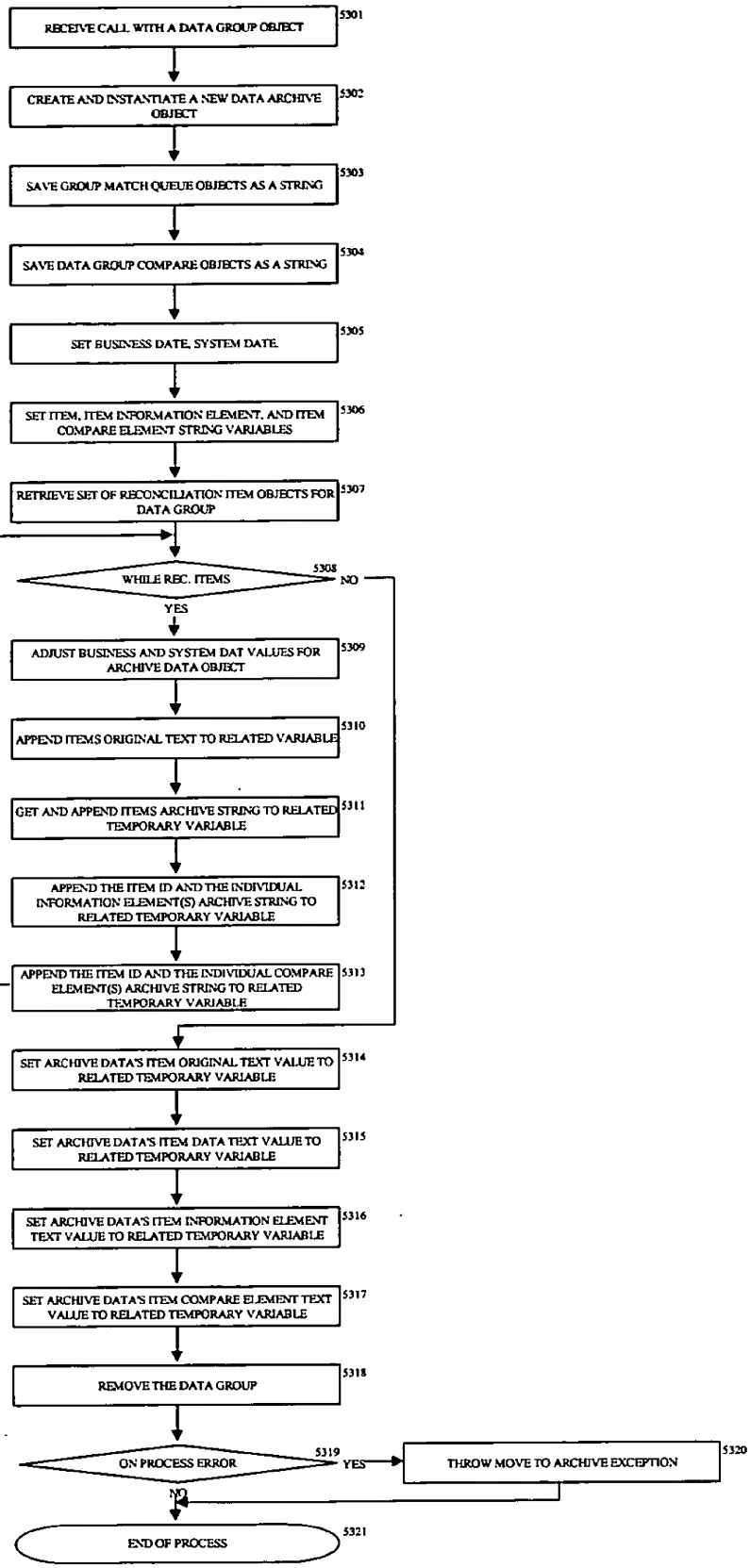

FIG. 53

ARCHIVE RELATED PROCESSES
RESTORE DATA GROUP FROM ARCHIVE

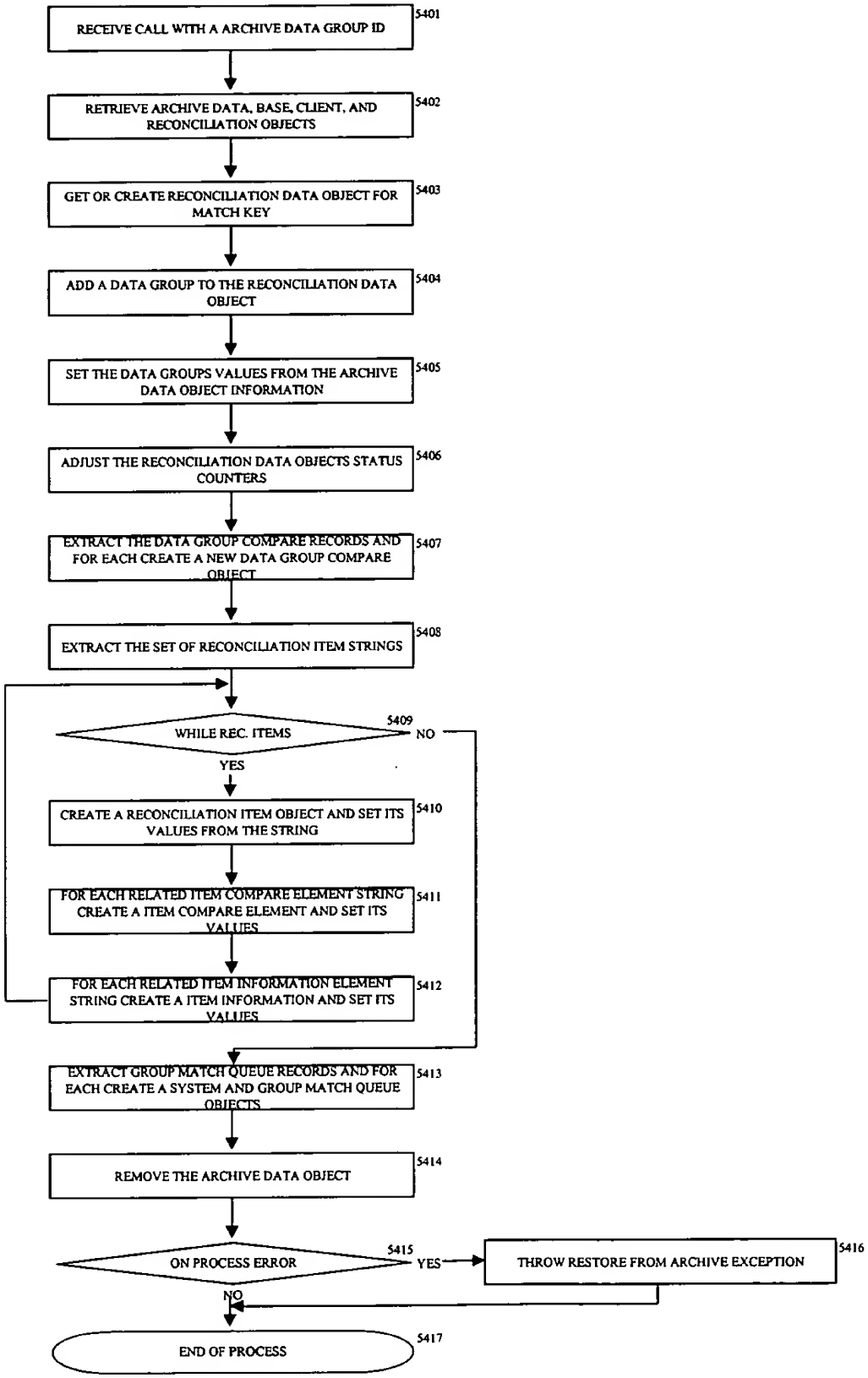

FIG. 54

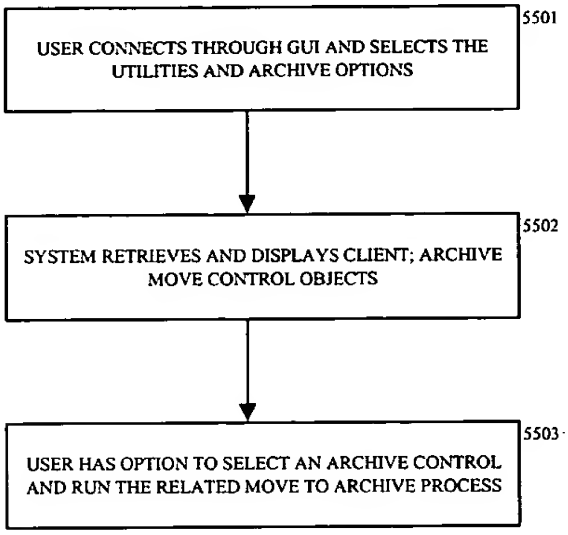

FIG. 55a

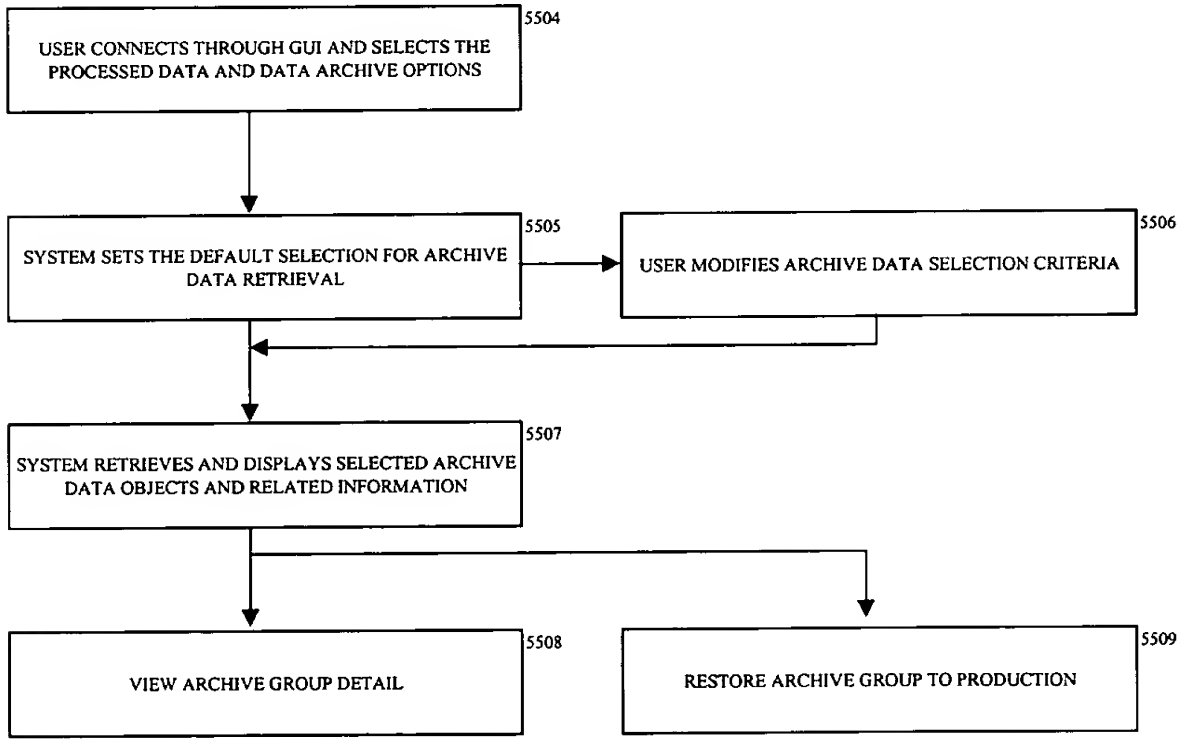

FIG. 55b

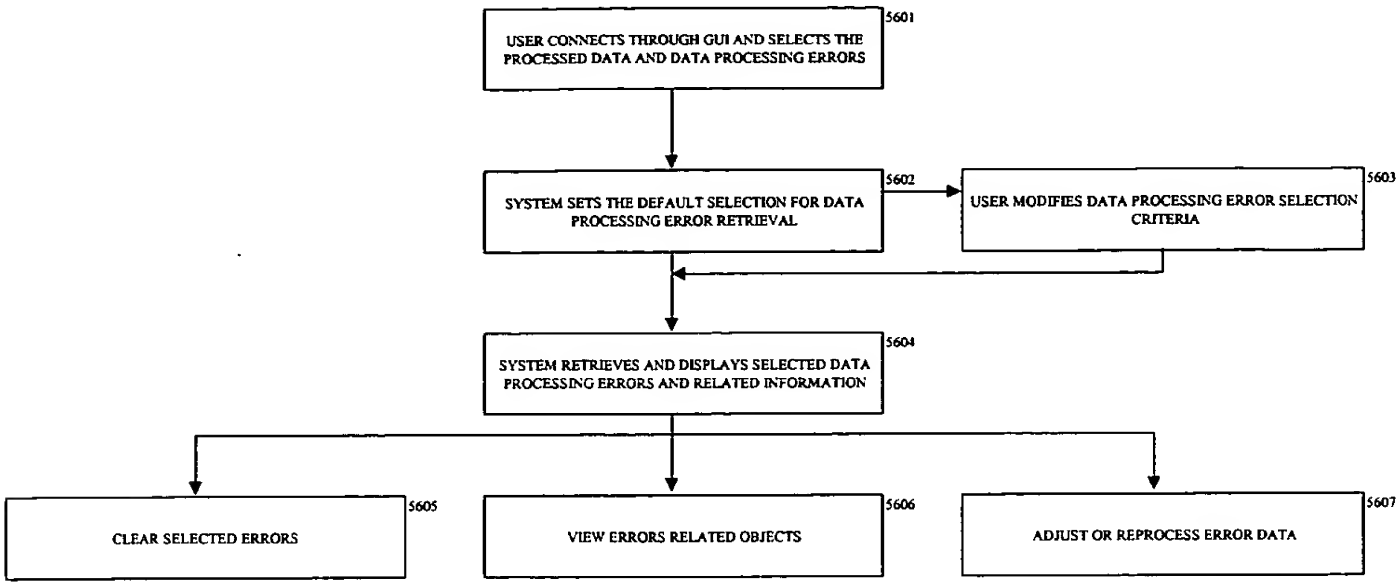

FIG. 56

Document ID: US 20020156756 A1